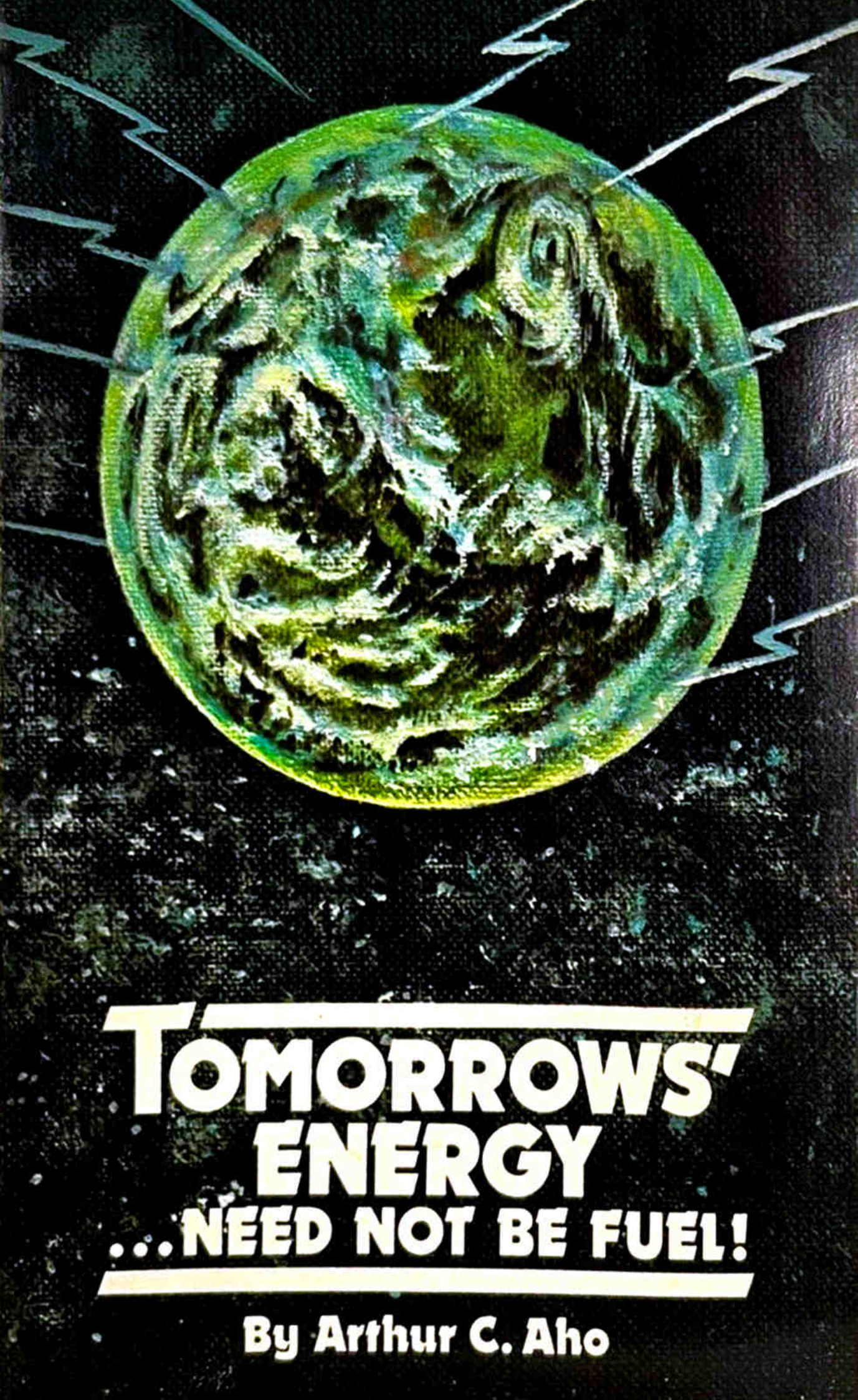
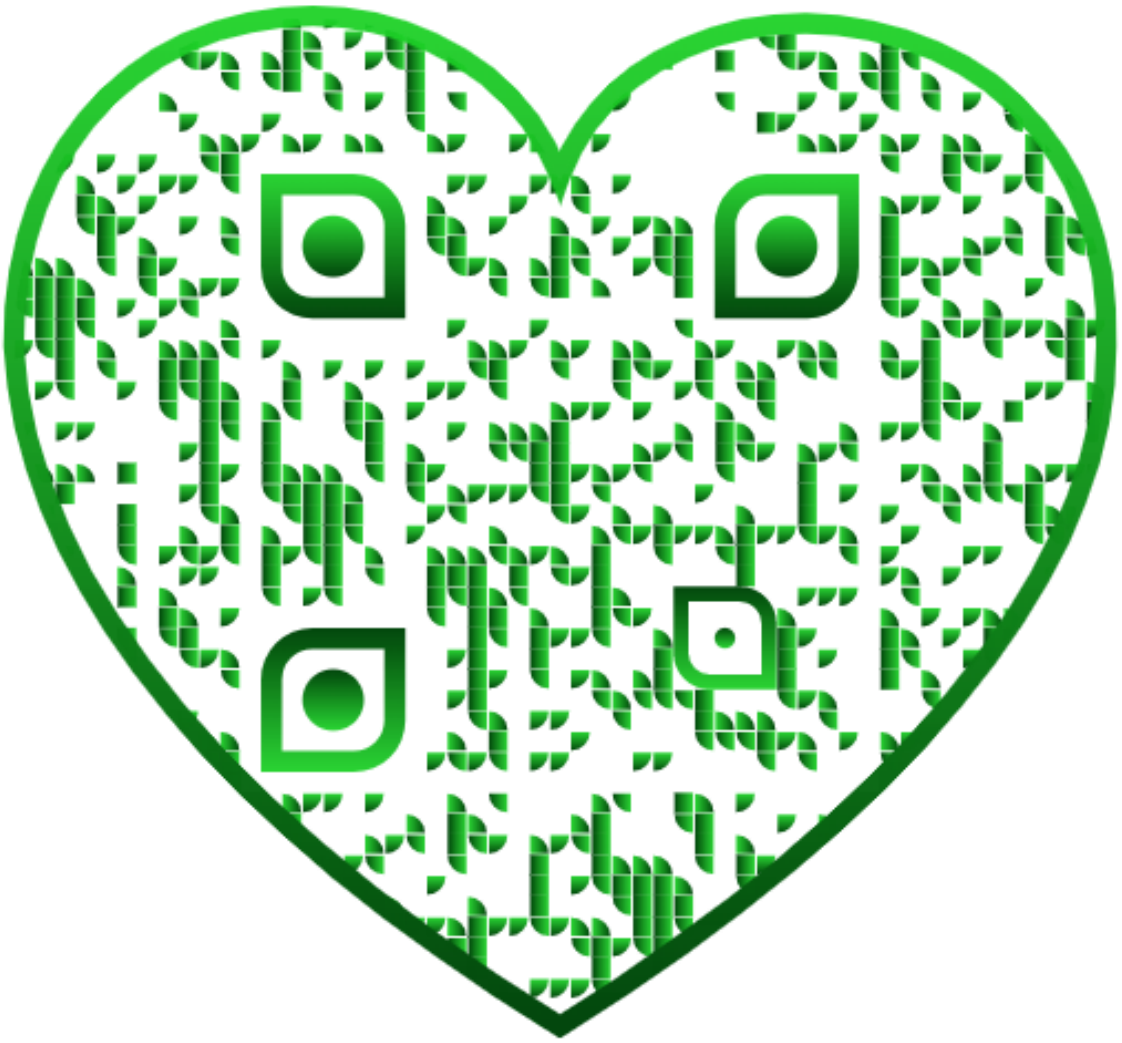


TOMORROWS' ENERGY ...NEED NOT BE FUEL!

By Arthur C. Aho



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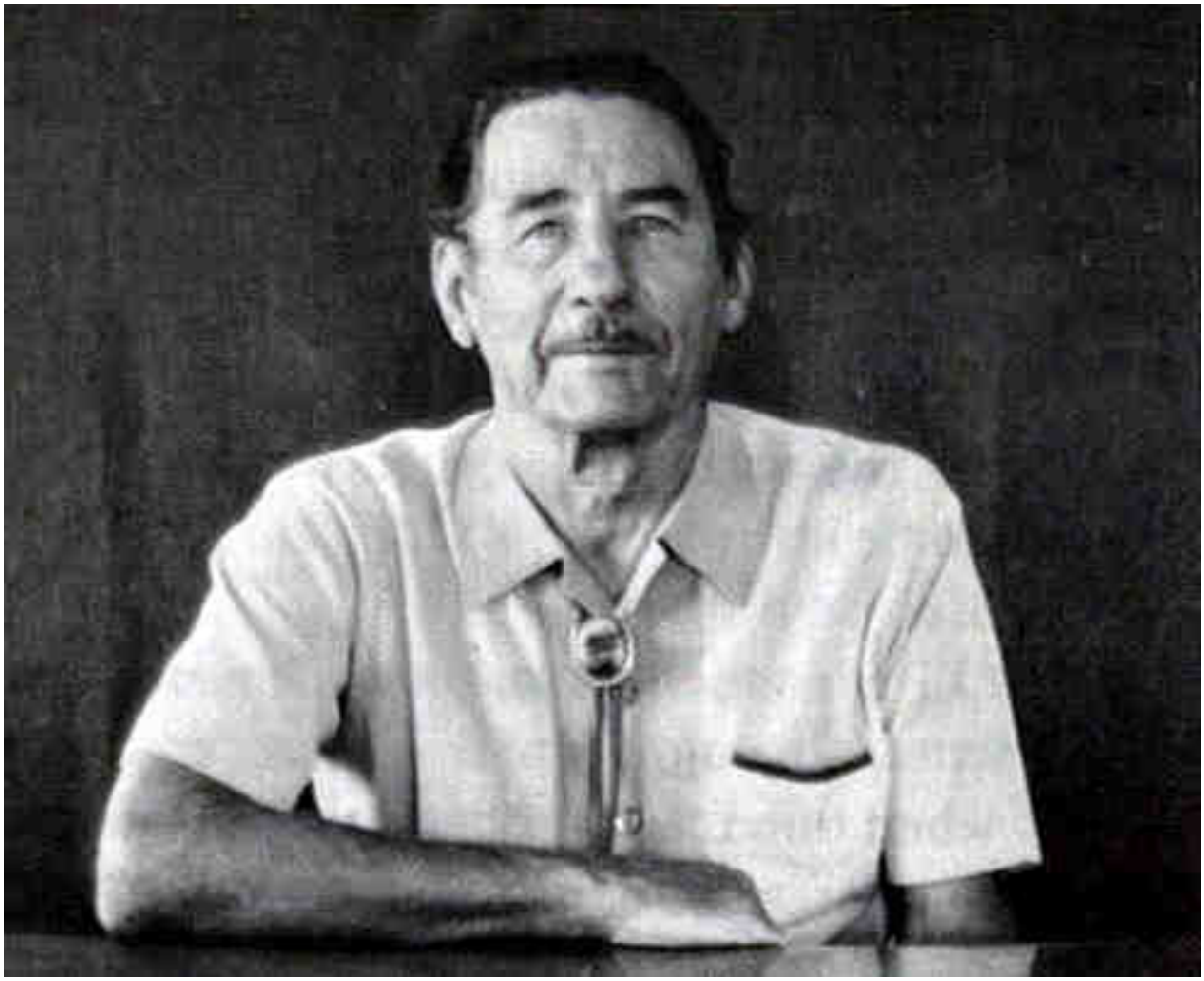

ABOUT THE AUTHOR

Mr. Aho grew into manhood during the trying years of the great depression of the late 1920's and the 30's. He became self supporting at a time when attention was on making a livelihood, and advanced education seemed of secondary importance. Because of this, his education was an individualized learning, befitting whatever interest or occupation was being pursued. In other words he was not influenced to believe all preconceived ideas of the past that had been adopted to be accreditated education.

Aho's highest scores on aptitude tests are the capability to understand or to know, whether it be written topics or how mechanical and electronic devices work. This ability to know has served him well in both work and play. He has mastered work and travel on land, sea and air and used all of them to live a well rounded life experience. His ability, however, did not stop at the borders of the physical, this writing is proof of that.

Early in life, Mr. Aho became aware of the difference between psychic inspirations and more subtle mystical inspirations, and recognized that they are two distinct mental levels of Life. A psychic is one who shows evidence of being sensitive to supernatural forces and influences bordering the physical. A mystical person is one who is aware of spiritual sensations not apparent to the intellect or the senses. In other words, a mystic can mentally attune to be influenced by Ultimate Reality. Mr Aho may well be classed as a mystic.

Knowing that Life is much more than what it appears to be to the physical senses, brought him a greater sense of freedom than is possible when one feels trapped by one's surroundings. He has often been referred to as a free spirit and a free thinker.

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DEDICATION

All things material come forth from the unseen, therefore, the road to discovery is likewise invisible. With this in Mind, our book is dedicated to all searchers who are desirious of mentally probing beyond the visible brain, which also, came from the unseen.

As this writing is concluded, we extend our thanks to the many tolerant souls who patiently listened and offered encouragement and constructive criticism during the years. Without their support and sympathy, this writing would have been quite laborious; with it, the writing has been an inspiring adventure.

Chapter 1

Mother Earth Needs Help

In the late 1960's mankind's dream of space flight was fulfilled, and our astronauts upon viewing planet Earth from a distant point in space, proclaimed their awe at the beauty and majesty of our home planet so gently turning in a sea of velvet space. Some of them described Earth as appearing fragile, and even as they viewed its beauty, they were appalled by thoughts of the man-made contamination and strife which was seething and expanding within that beautiful and peaceful setting.

History shows that there has always been turmoil and natural contamination upon Earth. However, in the past few hundred years, it has increased alarmingly because of uncontrolled application of the fruits of our comparatively young but rapidly developing, man-conceived sciences. Many modern scientists have predicted that we are rapidly approaching a point of no return; that we are at that point of deterioration where correction is no longer possible and decline will inevitably continue until Earth can no longer support life. On the other hand, students of history and prophesy are finding evidence to support an expectation of intervention from an outside source before we reach total destruction. Whether or not either of these extremes are as impending as predicted, the

fact remains that our world situation is critical and our concern regarding it is real. It calls for drastic action quickly. Like the man who, while traveling a rugged, mountain trail on a dark night, rode his horse over a steep cliff. As they plunged towards certain destruction, his presence of mind came to his rescue, and he hollered, "Whoa!" just before they reached the bottom.

Our need for presence of mind and quick action is just as urgent now. It is, indeed, time to hollar, "Whoa!" Whoa to all the contamination of Earth and to world strife.

Even though the application of knowledge acquired by man's rapidly developing sciences may be blamed for our desperate situation, it is still to science that we must look for guidance as we seek the way out of this plight. Our science has many branches, all of which can be listed in one or the other of two catagories which are diametrically opposite to each other. These are: (1) natural sciences and (2) man-conceived sciences.

Natural science is the practice of working *with* nature. More specifically this means working in cooperation with local forces of our Earth and Sun, as well as other, more subtle Life forces. It works with long-term, stable and permanent phenomena of nature without upsetting the ecology. These natural sciences, strangely enough, enjoy the least prestige as a science, even though they supply us with our most necessary and urgent commodities such as food, fuel and many other resources involving the very essense of Life.

The man-conceived sciences on the other hand, alter or change the state of materials already in existence in order to make them usable for man-designed purposes. The advance of this science calls for ever greater changes and alterations; therefore, it follows that the deeper man-conceived science probes into materials of Earth, the more contaminating are the results. For instance, in the development of fuels, the natural burning of wood was the least contaminating, while each step following: coal, oil, gas and especially atomic fuel has been more destructive, noxious and harmful to life on Earth.

Let us take an unbiased look at the man-conceived science of nuclear physics, which has made the deepest penetration into the unknown. Only 30 years ago this science seemed our hope for a long term answer to our diminishing fuel or energy supply. However, during this time period, we have moved ever closer to the brink of disaster. We now have wide-spread military and industrial contamination as a result of tests and use of nuclear weapons and fuels. We have millions of gallons of boiling, seething by-products from their manufacture, which by-products constitute the most lethal poisons on Earth. Moreover, these poisons lose only ½ of their lethal potential in 24,000 years. It is even more appalling to realize that these poisons are buried in the skin of Mother Earth in short-life containers, some of which are already leaking. Such a pursuit of science leads down the road of no return. In no way could the natural sciences have survived for so long had they pursued such destructive means to achieve results. What is needed is a common breakthrough in understanding to which all branches of science can relate, and with which they can work co-operatively to solve the problems of our present civilization.

At this time of rapid change in concepts by both the natural and the man-conceived sciences, we cannot afford to either defend or reject all of our currently accepted concepts. Instead, we must use our intuition and wisdom in an all out effort to discover and copy Nature's methods which have proven so enduring. Our goal is a clean environment, and the solutions must lie in putting together as is shown by nature. This goal can be reached without going backwards to the physical inconveniences of the days before our young, miracle-working sciences were developed.

Try as one might, a book on clean energy and the science of tomorrow cannot be written without including an analysis of the phenomena and natural settings in which this science must be nurtured. By the time we reach the closing chapters, the progression of these analyses will make it clear that an abundant source of energy does exist, that the method for tapping it is natural, and that because of this naturalness, it will not result in contamination.

Chapter 2

I And My Body

My desire was to plunge into the topic of science and its application to energy in our world situation. Experience, however shows that this approach tends to divert attention to physical and mechanical ventures only. For a more complete understanding it is essential that we first know more about the inner makeup of ourselves, both as individuals and in groups. People have created the critical situation which is of immediate concern to the world; therefore, in order to make corrections, there must be an expanded awareness and understanding not only of the situation, but also of ourselves—the people responsible for this situation.

Collectively we are referred to as mankind, but each of us is an individualized entity, which as defined by Webster, means, "a being with an independent, separate or self-contained existence." In addition to this, we are so complex in total makeup that we know more about the things that surround us than we do about ourselves. We see a mirrored image and name it "my body," even as we name possessions "my car," "my house," "my friends" etc. We do not say "I body" but speak of it as "body, a possession of I," even as we do our cars, houses, or friends. This is true in spite of the fact that we have not seen this "I," nor do we know exactly where it resides.

An example of the separateness of I and my body was aptly demonstrated and reported during the 1950's by surgeons doing brain operations where they could use local anesthetics, thus making it possible to converse with the patient during the surgery. They told of using a light electric current to trigger certain brain cells, which in turn caused certain body movements. Then when an arm, or some other part of the body moved, they would ask the patient, "Why did you move your arm?" The response, in effect, was always the same, "I did not move my arm; you moved it." The report stated that try as they might, no cell or area of the brain could be found which, when stimulated by the electric current, would cause the patient to respond to the body movements by saying, "you made me move _____" It was impossible to touch or probe a response from that part of man to which he would refer as "I." Instead, the I of the patient always spoke of the body as a possession. It was concluded that it could not be determined where in the body the I was based, or even if it might occupy the entire body, or perhaps not be confined within the physical body at all.

Although volumes of data have since been compiled by neurosurgeons concerning minute properties of the brain, nowhere in these studies and research is there any conclusive indication of where perception occurs or where nerve firings become music, vision, or pain. In spite of the fact that the answers sought are not forthcoming, there is an air of expectation of an immiment breakthrough by the neuroscientists involved. This air of expectation is present in every branch of science and in institutions of higher learning. In fact, there seems to be a world-wide quickening, not brought about solely by our increased knowledge. This seems to be affecting our general perception and behavior and is comparable to the quickening which takes place on Earth every spring when new Life develops in an ever-repeating, yearly cycle. However, this quickening of which we speak is more subtle because it is mental rather than physical, and it takes place in inconceivably long time cycles. It is a quickened, mental awareness and an intuition which at the end of an era or age, causes rapid

increase in knowledge and consequently, rapid changes in both the mental and physical aspects of our lives. For this reason our inner harmony depends upon being able to cope with these changes, even though the tempo is so rapidly increasing that it taxes our mental concepts to keep pace. We must develop flexibility in place of reluctance to mental and physical changes, even though to some of us the rapid changes may be disturbing to the point of agony. The rewards of keeping pace are exceedingly great.

Let us now reflect upon the neuroscientists' questions as to the whereabouts of the seat of consciousness (the I), and for the purpose of developing mental flexibility, consider this question in relation to the science of electronics. Only a few decades ago the scientific technology of memory cells and stored information was unknown as an applied science, but today it has been developed into a useful tool for automation and analytical purposes. In fact, mankind is a bit fearful lest this tool, when developed to its fullest possible potential, will displace him in fields which have been considered physical man's domain of activity. This concern has a deep underlying cause. Even though we love our labor-saving devices, we are ever watchful lest we become not needed, or not wanted. This deep-seated, inner feeling is a human emotion which cannot be instilled into a programed device. Herein lies the basis for declaring our superiority over any electrically programed device. Although these devices are a copy of a faculty of ours (our brain), they do not have a consciousness or Mind to guide their actions.

In the neuroscientists' experiments, the brain and the seat of consciousness were found to be separate, but with an indirect connection between them. In electronics, this indirect connection is called an indirect coupling and is used in the electronic circuitry such as is found in your radio and TV sets between those electronic stages that need to be isolated or separated in order to work. The ability of our brain (a recording organ) to store information and later use it automatically to trigger physical functions, compares with scientific, electronic devices termed "memory banks" which are used for guiding mechanical

functions of equipment. In more refined computer-complex equipment, other stored information can be used analytically to assist mental activities such as can be learned by the brain, and then be referred to as needed.

A simple, everyday demonstration of this ability and function in man is a description of the process of learning to drive a car with the skill necessary to make an automobile trip from home to a place of occupation, which involved rural as well as fast-moving, freeway traffic. The first driving lesson would be concerned with the development of automation in use of the car and its controls. This part of automation is similar to learning to walk, skate, ski, or other physical activity. Automation, in other words, is when memory is called upon by request of the entity living within the body (the I), and the body reacts to this request by using its stored information. Therefore, learning to drive a car is really the I programing the brain to use the physical body to extend itself to become as body-car, which is a connection by and through the body controls to the car controls, in order for them to operate automatically and in unison. The car actually becomes an extension of the abilities of the physical body. Thus we can program ourselves to drive a car without need to concentrate our entire attention upon it. But, we are not yet prepared to drive in fast freeway traffic in either confidence or safety. To do this we must develop our analytical computer. This is done via experience. We program into our mental function (brain) the data necessary to analyze, judge, and guide our body-car to merge and move in harmony with the changing conditions of the surrounding traffic, and to react safely and favorably to those conditions. Properly programed, we become an accomplished freeway driver. This simple description of automation and analytical functioning, which is used in driving a car, is so natural and seems so simple that we take it for granted. Because of its naturalness, it escapes our attention and wonderment until we observe the fantastic results that science obtains by copying these natural abilities.

Let us look at what was copied to make the trip to the moon possible. First, the critical lift-off was guided by automation, then the first-stage vehicle was taught to balance and "walk"

in space, each act guided by programed information. The analytical computer was able to guide the moon lander to a precise spot on the moving target (moon) by drawing upon stored information concerning a constantly changing relationship of the position of Earth and moon. But what about that which science copied? In baseball, how does a moving bat meet a purposely elusive moving target (the ball) at exactly the right angle to make a home run? Are the computers of some players better than others (better batting averages), or are they merely better programed? Reflecting more deeply into this pitcher-batter duel, or opposing test of abilities, we find it impossible to describe all of the details that must take place within those two physical bodies in order to perform the act of even one pitch and strike. Let us monitor the batter's stance as he waits for the pitch. As the pitcher unwinds, the batter tenses for action, and as the ball begins the approach, he alters his stance by shortening some muscles and relaxing others. The stance continues to change as directed by the batter as he monitors the ball. If the ball appears to be headed for the strike zone, then final corrections are made, even while swinging the bat, by moving torso, arms, legs, wrists and even facial muscles in a fantastically coordinated and powerful mental-physical drama, which moments later is recorded as either strike, miss, or contact.

We are often awed and thrilled by an exhibition of gymnastics at master levels. We admire the discipline that was necessary to train the body-brain combination to perfection of stamina and coordination. In computer-science language, we would describe the repetition of an accepted routine as programing and the exhibition of the finished act as automation. This living body is being copied by science in building nearly living machines—nearly living in that although they cannot learn by themselves, the machines can be programed.

As an example of the advantages of automation, we will review the history of molecular electronics, which is the science of treating molecules of germanium or silicon crystals in such a way that different parts of the tiny blocks acquire different

electrical properties. These domains and the interfaces between them act like components of complicated electronic circuits. This exacting technology required many hours of tedious, exacting shaping under a magnifying glass with delicate hand tools in order to form the devices now known as integrated circuits. This technology was gradually automated, that is, the exacting work became machine-made even to utilizing laser beam cutting, all of which is made possible by programed information (electronic brain) guiding the machines. The quality became more uniform and the cost to the consumer decreased as much as 90% because of this automation. The greater efficiency of the automated machine is due, first, to precise and uniform mechanical motions, and secondly, to the lack of distraction in the electronic brain, as it is not involved in any other activity. Should you look into the circuitry of a new stero amplifier, called solid state, you might wonder where all that room-filling, high fidelity sound is developed. If you are told that it is done mostly by educated crystals, manufactured by educated machines, don't scoff—because it's true.

We have touched upon two remarkable functions of mankind showing that we can become programed on the physical level and also in the less tangible realm (automation and analytical abilities). We can live and operate quite efficiently by utilizing these two faculties only, and reap the harvest of our efforts in physical things to make us more physically comfortable and entertained. These two functions serve us well, in fact without them we could have no progress either as individuals or as a civilization. Nevertheless, they also serve as a trap—a five-sense trap—in which we learn and remember only repeated or accredited theories and seeming logic which has been passed from generation to generation without questioning their validity. There is always a tendency to continually accept as fact or truth, that which may, indeed, be false. It is as if we were to program a computer-complex without ever making corrections or erasures. Fortunately we have the ability and right to choose what we will allow to be programed into our individual computer-complex (brain) and, more importantly,

we have the ability to erase any prior programing, should we deem it necessary or desirable.

Mankind has always sought more freedom and hungered for more and deeper self-expression. If we, as individual entities, desire more freedom, if we hunger for deeper self-expression, we must seek answers to the questions: "Who am I?" "What is this consciousness of being that I feel; this self recognition that makes me individual?" For this search we must choose to go beyond automation and analytical abilities, and seek the inner Knowing, the awareness of the storehouse of knowledge and wisdom available to us through the Mind of the Universe. This is the source of all sound and lasting concepts which have stood, and will stand the test of time as Truths. But all truth concepts were at one time new to mankind and not available in any textbook or course of study. New Truths are gathered by individuals using their intuition to reach into this storehouse of the intangible Mind of the Universe. We may choose to accept only programed materials from past generations or current materials or, we too, may choose to develop and use our own intuition and inner knowing which will be our guide, not only in gleaning new truths from the Mind, but also serve as a guide in judging which of the past-accepted truths to keep for ourselves.

Since we have this right of choice, why do we so often feel that our choice is limited? Could it be that we are enslaved by having chosen to accept past truths and mass programing only, and thus accepted a limiting concept of ourselves and our capabilities?

This chapter is not intended as a study of science technology, but as a comparison of scientific principles, which in man is called training or education, but in scientific devices is called automation. The purpose is to show that they are one and the same, to also show that man's mental activity, related to his physical world, can and is copied and called analytical computation; they too, are one and the same. The analytical computer is programed with chosen information for later use, but this man-made computer cannot program itself. It must be programed by man, thus we have greater capabilities than the

computer. These are based on attributes common to mankind but not the computer-complex, which to name a few, are the right to choose, self awareness or consciousness of being, intuition and inner knowing. Since one atfribute is the right to choose, we can decide to operate on the level of a programed computer-complex, which thinks only by scanning its programed data bank. Naturally, if we choose to operate on that level, we limit our thinking to evaluating of records (data) of constantly changing opinions of others, with few, if any original thoughts of our own. But we are free! Our right to choose leaves the door open to operate as an entity directing and operating in and through the physical body (computer-complex) not as I, the computer, but as I and my computer, with the entity I in control.

The difference in relation to the body, of Mind and brain is, even as the tie, both remote and direct. An example of this difference comes into view when we think of what takes place when one becomes totally inebriated. The first few drinks will remove the higher self from the body to a degree, and the actions and mannerisms of the body become more earthly, and the thoughts reflect programed emotions and everyday affairs. With more drinks, even the automation reflexes become more confused and uncertain, and the body control becomes erratic. Still more spirits of alcohol leave the body as a vegetable. Upon recovering, a reverse order of control takes place. It is not until all the effects of alcohol spirits are gone that high spirits again prevail in the complex vehicle, the body.

The God-given attributes of mankind, which summed up give us the ability to think and the right to choose are, as it should be, our most valuable possessions. They make up our knowing and we must cultivate and nurture them for meaningful soul experiences, which we will, in the end, take with us even though we give back the fantastic brain and body used in our Earth experience.

Chapter 3

Nature At Work

Natural phenomena, generally referred to as Nature at work, holds many mysteries and surprises for those who choose to investigate. We marvel at the seemingly individual capabilities of animal life forms. Their physical and mental abilities, when measured by standards set by and for men, are often nearly unbelievable, or shall we say "out of this world." Animals, birds, fish and even insects, generally in groups, perform with such precision, purpose and finality that it would tax mankind's similar capabilities to the point of no contest.

Imagine, if you will, countless thousands of people, all destined to be present at a specific location on the surface of the globe at an exact time, and having to do this without the aid of maps, calendars, time tables or navigation aids. If you conclude that such is impossible, then observe what salmon do without seeming effort or care. In short rivers, such as the Quillayute River in northwest Washington, the spawning grounds are a short distance from the ocean, and here the salmon arrive at the mouth of the river fully matured, with fighting hook jaws and sharp teeth, also with eggs and sperm ready for deposit. On the other hand, salmon arriving from the ocean to spawn up the Columbia River are not yet mature

since many must travel well over 1,000 miles, ascending fish ladders or dams to reach the spawning ground. Nevertheless, all meet the time table of season and maturity perhaps with less confusion than could man even with his variety of aids. There are other marvels to consider. The Columbia river has tributaries at various distances from the ocean, yet each species of salmon migrate on schedule and without error, to spawn in the stream from whence they came several years before. In the wild and natural Yukon River of the far north, King salmon are observed spawning well over 3,000 miles from the ocean. What guide and power is used for this wild, uphill journey? Especially since salmon do not eat after leaving the ocean to perform the greatest physical endurance feat of their short life span.

Later we will evaluate such nearly unbelievable physical capabilities, done without a continuous food supply, and relate them to a clean and abundant energy source of pre-atomic nature. But for now, we will concern ourselves with mental capabilites and what they imply.

A properly designed automated device is programed by man to achieve a desired result, and if faced with an obstacle beyond its control, such as a dull or broken tool, it will stop for aid and correction rather than proceed to an unprogramed end result. An automated device has an established goal programed into it, and although alternate steps to achieve the goal may be permissable, altering the goal is not. So, also, salmon climb artificial waterways (fish ladders), which may not have been there when they came down the river as minnows, in order to fulfill their destiny at their specific spawning grounds. If the salmon are barred by an obstruction from reaching their goal, they will die in their attempt to get through. This points to a similarity of man-made, programed devices and salmon; neither has any choice or capability to change their goal. Both the automated lathe and the migrating salmon are fulfilling an act of Mind. The nature of Mind, and how it achieves its purpose, is the question that pushes the inquisitive to investigate and theorize.

It is easy to conceive a wild theory to explain an unusual ability, but it can be embarrassing to try to defend it if the theory is not broad enough to cover parallel situations. For

instance, penguins have been taken away from their habitat as far as 2,000 miles into the open sea and turned loose. When many of them found their way back to their common roockery, it was assumed by some of the experimenters, that the penguins navigated a circular route using the sun as a guide to lead them home. To men of logic, for penguins to thus start from an unknown place and arrive at a specific, distant spot is as a feat of navigation, a very remarkable feat; still it could serve as an answer for lack of a better one. We are, however,stopped short when we are asked to apply this navigating theory to the travels of the female Emperor penguin, who in the midst of antarctic winter, without ever seeing the sun, travels on foot and by tobogganning over fresh ice that has formed during her mating and egg-laying period, to the nearest open water which may be 100 miles away. Here she feeds for a few weeks, then she unerringly heads in the right direction to find her mate who has been incubating the egg at the rookery, which is just a minute spot, scores of miles away in that vast wilderness of ice. Her return trek is made with never a look at the sun and only an occasional glimpse of stars through a generally overcast sky. At times she may be stopped by howling blizzards, but when the blizzard abates she unerringly heads towards the rookery, knowing the way without familiar landmarks or other reference to guide her. Logic tells us that something unknown, beyond the penguin is involved, and that this unknown does not fit into the category of empirical standards.

Many species that migrate, if studied by terms of abilities common to man in physical form, are as science fiction. For instance, eels that spawn near Bermuda, migrate as larvae to both the east coast of America and Europe and the Mediterranean Sea. Then after several years, when they are adults, they migrate and spawn near Bermuda, the area they left as larva. The larva is only a seed of the adult eel form that returns to the spawning ground.

During the late 1950's, the Science News Letter reported the results of a two-year study at Columbia University, which was a study of ant colonies raised in glass enclosures where they

could be observed. It was a thrill to note that they arrived at the same conclusion that my brothers and I had reached when as inquisitive youth we experimented with ant hills. This conclusion was that an ant colony appears to operate as though it has an overruling entity, which entity *is* that ant colony. Observation and experiments with honeybees leaves the same impression as did the ant colony. If the queen bee of a hive dies, a few bees, as though delegated to do so, alter several cells with a special honey (royal jelly) and stand by to destroy the remaining cells as soon as the first queen bee emerges, so that the hive will have one, and only one new queen bee. Bees also are dispatched in sufficient numbers to bring in an apparently known amount of sweets. If the find is a bit of sweets on a picnic table, bees arrive to transfer it to the hive. When the last bee has taken the last bit, no more bees arrive to even take a look. Is it known to the entity of the hive, rather than to individual bees, that none is left?

Each of these species present a separate and distinct mystery common to that species, and each, if studied separately would require a different approach. We can, however, resolve much of it by one observation and comparison. When we (mankind) domesticate animals and train them to perform or to serve us, we also supply them with harness or other equipment that makes it possible for them to do our bidding. We do not demand or allow them to set their own schedule or method of performing, as the authority and scheduling is ours. It is obvious in the animal's relation to us, that they do not have broad freedom of choice as we do. They have physical bodies which are suited to their purpose even as we do, but they do not have individual consciousness or mental power to the extent that we do; nor are they privileged to know self as we are. Our Mind then, has a freedom of expression and choice which could not be true had we a direct dominion over us. Because the animal kingdom has not been granted broad choice, neither is it expected of them to perform as though they had. Their know-how and compulsion in far-reaching activities of migration. mating and destination, along with the schedule and

power for so doing, belongs in the realm where also the authority and dominion over choice is based.

Mankind feels the physical instinct of reproduction, but nevertheless, has choice of when and where. This is not so with the animal kingdom as their performance is compulsory, and they have no choice but to comply. Even the infertile eggs that fish carry are a part of a plan for them rather than by them. It stands to reason then, that the balance of the schedule—where to deposit them and at what time, is the same. How to find their way and even the power they use, is a part of the plan. The question then, is not the acts but rather one of what Knowing is directing the act, and within what media is this directing accomplished?

What we see when we observe the marvel of living forms performing is a Cosmic drama of two realms in action. One is of Mind substance as a realm of law and order; the other is a realm of electromagnetic substance, which can first be manipulated into living forms and then powered and guided in their performance. This Cosmic drama is a mystery to mankind until it is known to us that it is granted right of choice that divides us from guided forms, and that man is a secondary creator within a setting of Mind and matter.

Energy is known to be in motion in Space beyond the atom, and also in stabilized form within the atom. The living body is constructed of atoms and the energy in motion in Space supplies electrodynamic drive. The forces that make the dual positive and negative atom stable are linked to Mind, which conceived it all into a Cosmic drama of intrigue.

The very last thing that a deep sea fish could discover is salt water. Likewise, it is difficult for man to recognize with his mind, the realm and substance of Cosmic Mind. Mankind's eyes, which are electromagnetic, can detect only electromagnetic substance; his mind that is immersed in the substance of Mind, cannot evaluate the realm of Mind objectively. The discovery must be made by deduction rather than by induction, as there can be no direct physical proof.

Chapter 4

Electromagnetic Isolation

We are privileged to be living on Earth in a time period which is referred to as the era of "knowledge explosion." Prior to the era of the Dark Ages, the scope of our knowledge increased very slowly; in fact, it took approximately 1,000 years for the accumulated knowledge to double even once. During the Dark Ages progress was more or less at a standstill, then about the 15th century our accumulated knowledge started doubling in 500 years, then 100 years, then 50, 10, an so on at an ever faster rate. Recent surveys show that our knowledge is now doubling at an 18 month tempo and continuing to increase rapidly. This means that we are now enjoying a storehouse of knowledge so vast, so broad, that if we do not apply it to our basic understanding of Life itself, we are, allegorically speaking, missing the boat; even as did the foolish virgins in the parable depicting an event such as this. For this reason it is wise to examine all man-conceived theories, and evaluate them in relation to our changing times and to these indisputable facts: Life on Earth is one with Life in the Universe, and the changing cycles of greater Celestial systems have a direct influence on the affairs of Earth.

When Dr. Albert Einstein postulated his Unified Field and Relativity theories, there was a much lesser store of knowledge available to him than there is at this later time period in the era

of our knowledge explosion. From the turn of this century until 1955, Dr. Einstein strived to understand and explain how the vast Universe operated as a unit. His contribution to our increase of knowledge is recognized wôrldwide; nevertheless, he is quoted as saying that he was never fully satisfied with his findings and postulates. Although his theory of Relativity related the energy that is in motion in Space with the energy that is congealed in material substance, and his Unified Field theory combined electromagnetic forces of space with those of gravitation, he felt that something was still missing. He had a deep emotional conviction of the presence of a Superior Reasoning Power which permeated all space, but he could not relate this wisdom directly to man and Earth, as he had related energy to all material substance.

Dr. Einstein is said to have spent many enjoyable and thrilling hours in the shop of a friend whose livelihood was to repair radios. He would marvel at how a man could examine an ailing radio and, as though by magic, pick the exact components needing repair from that maze of wires, condensers, resistors, transformers and what have you. Had he taken the time to study electronic circuitry and its purpose until it was clear to him, he would have been astonished to note that in this little gadget existed many of the keys he sought to unlock certain mysteries of the electromagnetic Universe; that in this little radio set exists both togetherness and isolation, which from the designer's point of observation makes a working composite, but for one looking at the effect only, this composite—this radio set—is a mass of mystery.

Let us unravel a part of this mystery. Every radio has a tuner, which is an electromagnetic gate that opens into electromagnetic space, allowing the selected signal (which signal carries "piggy-back" all desired sounds or information as energy) to pass through, first to a process of amplification and then to detection (or extraction of the desired information from this selected signal), and then to final amplification and output of the desired information through the speaker, which by vibration, reacts as did the vocal cord that created the

original "piggy-back" signal. Each of these basic stages, and several more within them, are isolated one from the other by an indirect coupling, such as a transformer, a capacitor or a tuned circuit. If any two of these stages were coupled directly together, they would dissipate one into the other, and neither would function to serve their designed purpose. Each stage is, of necessity, isolated one from the other so that they know each other only in a designed manner and for a specific purpose. If it were possible to converse with these isolated stages, each would have its own story and opinion of what constitutes reality to it. You could not convince the strong output stage that it depended upon any of the other real stages preceding it in order to have both voice and message. It would be equally as hard to tell the tuner that what it heard and felt was not of a quality that could be heard by the listener for whom the radio was designed. Isolation, when designed into any electronic stage, is just that—isolation.

Mankind also has certain limited sensors (stages) each effectively isolated from the total physical or electromagnetic Universe of which he is a part. For example, our sensor of vision, the eye, registers only about 1% of the known electromagnetic spectrum, and none of the controlling forces beyond it. Although man's physical senses speak the loudest and with great authority, they cannot sense beyond the barrier that isolates them and makes each a limited sensor, confined to its portion of the physical realm.

Each and every unit within the vast Universe, from microcosm to macrocosm (including living physical forms) is tuned into another activity outside of its own form by an active energy field that permeates and encompasses it. This field is more and more being observed and photographed optically and electronically. The energy fields closest to man, animals, plants or other objects, have been observed throughout time by those having clairvoyance, which is a vision that seems to be of the eye, but is actually a vision that impinges the consciousness. These energy fields, usually called auras, are more complex and more active in living form than in inanimate objects.

In man the aura is a display of constantly changing activity, responding to the emotions and stages of well-being with a variety of colors and intensities; even responding to changes of Celestial nature far removed from him. The aura, or energy field, is an integral part of man's being and is much more complex than is the tuner of a radio. The tuner is a selective, open gate that detects and absorbs the electromagnetic activity which fills space; therefore, nothing in the electromagnetic field could be used by the radio without a properly oriented, or tuned, tuner. Likewise, nothing in the field of Life could be felt and used by us if we were not equipped with a tuned Life Field capable of tapping the forces common to our living body and the Life Forces of the Cosmos.

Besides being individually isolated into a self-reliant system (our physical body), we are further isolated by being on, or within the negative electronic field of planet Earth and, thus within the Solar System which has a field within other, ever larger systems. The negative polarity Earth could not be as it is within a moving sea of Living Space, if it were not effectively isolated to operate by indirect couplings. Our fantastic recording organ (brain) is subject to this strong isolation also. It is of Earth, and when its usefulness is past, reverts to Earth. There is no way that the brain, of itself, could discover a realm beyond its domain of operation, any more than could the isolated stage within an electromagnetic device such as a radio or TV know the whole circuit. The non-electromagnetic forces do not have this isolation or restriction. In nuclear physics, the neutrino, because it is not an electro type energy, can theoretically pass through millions of miles of solid lead without encountering resistance. The neutron can also penetrate solids, although not as freely, since it is more of a tool than a totally free agent. It stands to reason then, that the illusive, non-electromagnetic I of us, like the neutrino, is not limited or restricted by electromagnetic resistance. We can program our brain to accept this and to apply its recorded data of Earth's findings to be an extension of our consciousness into the physical realm, in such a way that the Spirit, I, can know electromagnetic experiences.

It is a long distance, technically speaking, from the radio to the present-day wonders of applied electronics. There is even concern lest our personal lives become minute, electric charges in a memory bank, lest we become only an invisible pawn to a man-made system. Those involved in advanced research in many fields, all seem to have a common feeling that we stand on the brink of even greater breakthroughs. What appears to be holding the breakthroughs in abeyance is much the same in all branches of research, and generally boils down to questions such as: "Why is Nature as it is?" "How does Nature do what we can't?" "What is missing in our approach that is not missing in Nature's?"

Our young sciences have gone far in a relatively short time, albeit not always to our advantage. What is needed is to find the nature of the tools used by Mother Nature, which we have not yet discovered. If we believe that we think with our brain, we will be prone to seek these answers within minute particles of matter, and thus strive to alter material to create and measure micro-second duration motion or energy. If, on the other hand, we know that we think with unrestricted Mind, we will look upon this force as though it were related to the physical form in the same manner as is the wind related to the windmill. A windmill only uses the forces of the wind which it becomes caged into; it does not alter or change the forces, it merely slows some of them temporarily.

An unlimited mental picture cannot be conceived until we add an opposite, for contrast to the generally accepted theory that the only force in motion in free space is that one termed "speed of light," which has a velocity of 186,000 miles per second. This single reference, which has an unknown source, is confusing because there is absolutely nothing in the physical realm which does not have an opposite for contrast, by which opposition its reality is established. Since our purpose for writing this book is to point to a clean energy source, which is available by passive tapping, in contrast to forceful pumping, we must recognize the existence of an opposite force, compatible to and in conjunction with this known constant, "speed of light."

As Nature appears to do everything quite simply, there are, no doubt, missing factors for us to discover. The science of nuclear physics is getting ever more complicated with their deep probing. There is an urgent need to find the simple way forward. A review of past efforts may uncover a wrong turn which would call for a basic correction of our course as it relates to energy. A seemingly insignificant error in the early stage of scientific research could snowball to such a degree that the great achievements accomplished by science may overshadow even greater possibilities of scientific wonders, which are overlooked because of an established trend or theory. Did our early science thus accidently stray?

In the early days of electricity, less than 250 years ago, men were rubbing together different materials and observing the results. They determined, by their observations, that there were two distinct types of electricity, and named them *vitreous* and *resinous*. The vitreous had an affinity with pith balls, which are derived from the positive core of vascular plants and trees. The resinous had affinity for the negative, outer mass of these plants and trees, such as cellulous and rubber. These two contrasts became known as positive electricity and negative electricity. This belief held until it was found by experiments with a Leydin Jar (a condenser or capacitor) that flux of the positive electricity could be divided into a pressure (voltage) by a lack and/or excess of "juice" called valence electrons, which is contained in and associated with good conductors of the positive electricity. Thus the resinous, or negative electricity, was dropped from the science of electricity and electronics, and the manipulation of the vitrous, positive electricity by forcefully separating this miracle-producing electrical juice within good conductors of electricity into a state of lack and excess, became known as the generation (pumping) of electricity, and the particles, or juice in transit, became known as electrons. Was it then the Leydin Jar that became the mother of the continuing mystery concerning electrical energy?

When we direct our efforts to know what lies beyond the atom as energy, using Nature's way, we are only extending a quickly growing trend in science. The 1951 edition of *Encyclo-*

pædia Britannica has only a short reference to the research and study of animal life which is capable of producing an electrical shock. The electric eel and electric catfish had only a few short paragraphs concerning them, and their involved organs were only vaguely discussed. The 1975 edition, which was compiled with a reported expenditure of 30 million dollars, includes a summary of extended research in biological electricity. Not only are the electric eel and the electric catfish described in detail, but also many other species of marine life and the two basic types of electric-producing organs; one muscular and the other composed of fatty, gelatinous substance. The October 1974 *Scientific American* has a well done article, complete with pictures which shed light on the structure of cilia. Cilia are hairlike appendages that protrude from single cell organisms and are in function as oars that propel a boat. The pictures are the result of electron microscope probing, which show these fine appendages in detail. While the structure is beautiful, what it means remains a mystery.

As we systematically build a case for space, which is in fluid form beyond the atom, and which is dual, not unlike the dual physical structure of material and phenomena on this side of the atom, we will also see how marine life moves without seeming effort through the media of water, and quite conceivably how a strange, electrified craft can move in our skies, and no doubt in many other skies without the necessity of stopping to bargain for fuel to activate their craft, which at times nullify or interfere with some of our electrically operated circuitry such as auto ignition systems, radios, electric motors and power storage batteries.

Our physical senses know and detect the electromagnetic realm in a limited manner. Thus they cannot reveal to us mysteries that relate to forces that are not electrically charged. The non-electromagnetic realm, which is akin to Mind, knows no electro-type restriction. The way is clear for the mind of us to know the necessary answers for developing an ultimate energy source, if we first conceive in Mind that the possibility exists. Empirical limitations are strictly electromagnetic, but the electromagnetic forces are manipulatable by Mind at any level or isolated stage where the two are present.

Chapter 5

One Law Or First Cause

The dream of every researching physicists is to find one law, or a small group of related laws, which is the base for all other laws—the base to which all natural phenomena will relate in terms of cause. This dream generates a quest that is not exclusive to the physicists. It has been the dream of both empirical and philosophical researchers throughout the ages. This writing, too, is a quest to fulfill this dream; to find one law which will not only satisfy the material scientists, but will also apply to the quest of the philosopher and even include the neurosurgeon as he investigates the brain, seeking how and where our physical sensors make themselves felt by the I of us. In fact, every knowing and thinking entity, which includes each and every one of us, dreams this dream and to a greater or lesser extent, nurtures this quest. Since the deepest probes into Earth's physical structure have not disclosed the method by which Nature puts things together, and since the deepest probes into the brain have not revealed a point in the brain to which the Mind relates in knowing; an expanded concept is needed in order to establish a common law to which both Mind and material have reference. As material substance does not move Mind, but Mind does move materials, our

quest for the One Law comon to both is basically a search for the seat of Consciousness to which electromagnetic material has reference.

In the not too distant past, Earth was thought of as a flat, stationary platform in Space which was the center of Celestial activity, and therefore, the seat of Consciousness common to Earth and its people. It all seemed so near at hand that Earth as First Cause of Life seemed logical. However, when the voyage of Columbus proved Earth to be a sphere, and later scientific advances like the telescope of Galileo Galilei, showed that it is a sphere within innumerable, ever larger spheres, all in a harmonious motion in relation to each other, this neat little package of Earth as First Cause of Life or the source of One Law, became obsolete.

During the past few hundred years, great men from every branch of science have uncovered scientific truths from so many different aspects that these truths, like pieces of a giant jig-saw puzzle, are disassociated and incomplete as related to each other. If it were possible to catch a glimpse of the Master Picture to which all these pieces belong, then there would be hope of fitting them together and of finding the One Law. With this in Mind, let us use our inner knowing and build a mental image of the Master Picture.

Since we must attempt this visualization from the physical, electromagnetic realm, it is necessary that we constantly consider our swayable emotions, lest our subtle sympathies, which result from these emotions, gain control of the mental picture. Emotions are akin to imagination. When we relax to enjoy a drama on stage, theater or TV, our sympathies can be swayed to almost any desired point of observation. If the main characters of the play are noble in motive, we mentally support their cause as we watch the drama unfold. However, should the leading character be a villian or a rebel to society, we tend to see the drama from his point of observation and be sympathetic to his cause. We can mentally support a wildlife killer, or thrill at the escape of a docile animal from its killer. We can easily become enthralled by the portrayal of a scene on screen, identify with the character being portrayed and feel

absolutely alone in the situation; even though we are surrounded by others watching the same drama, and we know that a whole crew of technicians and directors were watching the performance in the making. We can vision ourselves in Space, living the drama of astronauts within the space capsule in spite of the fact that we are in our easy chair and see only a portrayed image through the eyes of the camera.

In our attempt to glimpse the Master Picture, our point of observation is from Earth; thus our sympathies and emotions tend to be with things of Earth. The challenge is to understand and control our emotional self as we seek, and then to project this understanding and emotional control into our observation of the vast Cosmos.

When we observe our fellow men, the physical body appears to be identical to the Consciousness that speaks through it. However, to the individual occupant of that body, this is not true. As we have shown, the I speaks of the body as a possession, separate from itself. More and more this tie within man is being investigated in relation to new scientific discoveries that relate to man's faculties, and each new discovery involves mankind deeper with First Cause and removes, to a degree, his physical limitations. At the time when Earth was thought of as the seat of Consciousness for everything man knew about, including the star-sprinkled Space which appeared to move around it; mankind was also limited to his immediate surroundings. Although the written word could be sent out in script, direct communication at a distance was impossible. To be seen or heard one had to depend upon physical abilities only. For example, a group of actors upon a stage had to depend entirely upon the reach of physical sight and sound to share the drama with others. The radio extended the effective range of voice, conveying it to great distances via electromagnetic space, and now TV can carry the entire drama, which is viewed by camera and heard by an electronic ear, then amplified and injected into the jello-like resilience of the electromagnetic nature of Space, to again be made visible and heard at independent TV receivers. The pliability and flexibility

of the electromagnetic nature of space, and that same substance congealed in material form, staggers the imagination, and each new extension of its use extends our activity more deeply into energy Space.

Each Explorer probe that has been sent into Space beyond Earth's field, far exceeded what was expected of it. This can only mean that Space has ever more to offer as mankind extends his knowing. Nuclear physicists are also researching space—invisible, microscopic space, where forces meet and combine to make matter. The forces congealed in matter are one and the same forces that are in rapid motion in space and commonly called speed of light. In spite of the fact that basic theories postulate this, very little has been done by particle physics to tie atom space to outer space.

Nuclear physicists recognize four forces in the atom. Two of these are electrically physical or electromagnetic and the other two are non-electromagnetic. The two electromagnetic forces are readily detectable and are identified as the proton (positive) and the electron (negative) and thus are two contrasting forces. The other two forces are non-electromagnetic and have been named the neutron and the neutrino. The neutron is recognized as a strong force with mass equivalent to the proton but without an electric charge, that is, non-electrical. By accepted theory, the neutron is the force which, when nullified by bombardment with or by other neutrons, brings about release of heat or nuclear energy. The fourth force in the atom is the neutrino and it is so illusive that for years following its recognition, it was referred to as a hypothetical particle. The neutrino, like the neutron, has no electric charge and is at present considered a weak force. However, there is evidence that it quite possibly could be a strong force which, if it contains mass, that mass could be extremely large. At this writing, the goal of nuclear physics is to find how these four particles (forces) combine, by interaction and exchange, to form the atom and to establish a law by which these forces in the atom can all be considered to be electromagnetic substances. Should you wish to familiarize

yourself with these findings and what they indicate, you can find a good account of this in the *Scientific American.* An article in the July 1974 issue, "Unified Theories of Elementary-Particle Interaction" leads into an article in the December 1974 issue, "The Detection of Neutral Weak Currents."

As has been shown, the electromagnetic realm reacts to influences and lends itself to manipulation and manifestations, not only in the vibrations visible to the physical eye, but far beyond—both above and below. In spite of the limitations of our physical vision, we can use it to assist our mental survey of the vast Cosmos, provided we do not allow our emotions to see these forces as Earthly ones only.

The detection of the neutron and the neutrino in the atom bridge was the first physically acceptable evidence that strong non-electrical forces exist at the pre-atomic level, and that these forces serve as stabilizers to the electromagnetic realm at that point. These stabilizers of energy, and the insulators in generated electricity, when compared to each other, are seen to serve one and the same purpose. In electronics we depend on insulation to keep the positive and negative forces from dissipating. So, also, can stabilizers at pre-material level avoid dissipation of unseen forces which they control. They must, however, be denser or more forceful because they maintain control over electromagnetic substance in rapid motion.

Some tears of joy were shed when, during the first atom bomb explosion at the New Mexico site, it became evident that a chain reaction of monstrous proportions had not taken place as a result of the test. Many had been fearful, lest a chain reaction would extend to other atoms beyond the bomb to engulf those at the site, and even further beyond to those not aware of the test. This assurance, to a degree, removed pre-atomic and atomic forces from the category of common unstable, stored energy (explosives) and heralded the discovery of stable, pre-material or Space force.

Our quest for the One Law is away from Earth substance, thus we will be looking further into the unseen with its ever finer, more dense energy substance. The terms unseen and

more dense (higher density) may make that state seem to be less real and thus with less control than is the material substance which we see and which is coarser and of lower density. The opposite is actually true, the unseen, finer, higher density substance has the most control. It may help to give a physical example to show the relation of low density to high density. Let us visualize a bin of small pellets, then picture marbles or balls placed on top of these pellets. The marbles would, of course, stay on top of the pellets. Now, picture the bin first filled with marbles or balls and the tiny pellets poured on top of them. The marbles could not contain the pellets and the pellets would slip downward and disperse throughout the balls and marbles. Thus we see by this physical example that a denser energy substance can block or control the less dense energy substance.

Now let us begin our search for the One Law, taking it one step at a time, beginning at the most minute and ending at the most massive.

Step 1: We will start by observing the atom, which is where science has made the deepest penetration into material substance. We start here because it is the smallest unit which has a center nucleus, thus it can be compared to an uncountably small, micro, micro Cosmos. It is also the bridge between material substance and energy forces. The atom is hard to research because it is so minute in size; the electrical forces, however, can be made visible as an effect in a cloud chamber. This shows that they are more closely related to the material in the chamber than are the non-electrical forces, which are more stable and *are not* the carriers of energy flux which releases heat.

Step 2: Since living, biological substance is a higher form of Life than single atoms, our second step is to evaluate the living cell which is a grouping of atoms. Even as the electromagnetic energies combine to form the more complex energy cell, so do the non-electromagnetic forces combine to be a common center of stability. This center is called the nucleus.

We shall call it the "master cell." This master cell dominates and stabilizes its individual units, the atoms, and is visible only as an effect or subtle, stable control, at the cell center.

Step 3: Even as drops of water combine to make up a stream, the cells and their contained qualities combine to make up the organs of the physical body. Organs are more complex than cells, but they, too, are under control of a master cell. Thus, in unison, the electro type forces and the non-electro type forces, via a master cell, become a complex unit—an organ within a living body. The organs must also answer or comply to the nerve center and fields of the body which contains it. Our search does not end here.

Step 4: A human body is a grouping of organs on, and with, a skeletal and muscular frame. It, too, can be likened to a mini-universe, and even as an atom or a Solar System has a center nucleus, i.e., the central nervous system, which is the tie or master cell to forces beyond it. Although volumes have been written about this body of ours, it has never been fully understood or described, and remains one of the natural phenomena for which we are seeking the One Law. Since the human body is observable and feelable to each of us, we will pause here for further study. Our body, which is our personal mini-universe, is dominated by the entity I when it is awake or in the state of "I" consciousness. When we go to sleep, the I withdraws from active control and leaves the physical body under control of its master cell. The body then becomes passive and at one with the Universe, adopting its rhythmic breathing rate, and in this state receives repair and exchange of wornout cells. Rhythmic breathing is not new in the study of the Universe. Observers of both North and South auroras report a rhythmic 'breathing' during this phenomenon, which apparently is a result of polar flux meeting energy flows that "breathe." In order to go to sleep, it is necessary for the body to de-couple from the control of our Consciousness and at the same time to couple into the rhythm of the Electromagnetic Density, even as hibernating animals do for long periods of time. Sometimes when we are falling asleep, there is a mighty

jerk which feels as if we are physically falling. What happens is actually the reverse, as it is the separating upward of the I out of the body, which gives that feeling and results in the physical jerk. In this case, the withdrawal of the I has taken place a bit prematurely, while the consciousness is partly coupled or engaged to the physical body. The sensors for the I register an effect similar to that felt when seated in an auto and looking at another auto alongside. If either starts to slowly move, one can hardly tell which auto moved until an outside reference is used to determine which one made the move. This experience shows us that the I and the body have a part-time mental and physical relationship. We do not normally sense this togetherness, nor the division; therefore, it must not be of our design, and we must look beyond for the One Law.

Step 5: Our mental quest for the One Law now takes us to the Solar System which also has a center nucleus, the Sun. Only 30 years ago it was believed that in order to put an astronaut into Space beyond our Earth's atmosphere would require at least 3 feet of lead shielding around him to protect him from the Sun's rays. It was thought that if this were not done, he would be burned to a crisp within seconds. Today we know that even solid state devices, such as transistors and integrated circuits which suffer from excessive heat, can be safely sent on explorer satellites even to planet Mercury, which is quite near the Sun. It was also found, by Mariner 9, that the heat of Jupiter is of a nature that could not be attributed directly and totally to radiated Sun heat, which was thought only a few years ago to be the only heat that existed. Although little is said now, it will soon be common knowledge that planets make their own heat, aided by the Sun's field and Space energies.

It is now known that Space, within which we live, is indeed a much friendlier place than it was considered to be only recently, but our search for the One Law cannot end here because, although our Sun is a nucleus and is stationary in relation to us and our sister planets, it is anything but stationary in relation to the center of our local Star System, which consists

of our own Solar System, plus other Solar Systems, all of which orbit around a common center (nucleus) which is beyond our vision. As our Solar System with its planetary orbits causes seasons and changes, would not this larger system, this Star Cluster with its more numerous orbiting bodies and its longer time cycles, involve us in changes more subtle than our yearly seasons?

Step 6: We observe stars (suns) in Space, some by direct vision and others beyond them only by telescope. Although we cannot see the Sun centers of greater systems, they represent control, which is in a sense, handed down always from a higher control center to the one below it. If we were qualified to stand at our Sun frequency, we could possibly see the next higher control center (our Star Cluster), and from there the next higher (our Galactic Center), and from there should be visible a still higher center (a super Galactic Center), around which our Galaxy orbits as one of a family of Galaxies. Beyond this super Galaxy would then be a super-super Galactic Center, which gives order to that massive system and which again is a unit in a still larger system. This progression of looking into ever larger systems has to be as though looking from the outer to the inner, regardless of from which Solar System we may start, or where it might be located. In all cases, we would end up at Infinity, a condition that has no motion beyond It to which It would have reference. In other words, Infinity is a condition of Stable Stillness, in which absolutely everything in motion is within it; and to which everything in motion has reference for control and for law. Consequently, Infinity is absolutely Top Authority; and the One Law of the massive system, of which we are a part, as we are within It.

There is no need to seek further for One Law, nor need we question the source of any other law, as no lesser law within the Basic One Law could establish unquestionable authority or exist independently in Stable Stillness.

Chapter 6

INFINITY AND US

Our quest for one law ended at Infinity. This quest was guided by the idea of containment which is applicable to every aspect of our Life and Being. Containment can be stated thus: Any unit which in area and volume contains lesser units within itself is a more nearly self-contained unit than is any of its parts, therefore it is greater than any of its parts. *Infinity is the only totally self-contained unit. Infinity is that State or Realm which has no reference to a greater state or realm beyond It because there is nothing beyond It. It is Nameless Wisdom that knows Itself by Vibratory Stillness, which need not travel to know Itself at every point; It is the top authority at the Center; the Ultimate reference for all things great or small; the stable influence throughout the Universe which can only be known or felt by us through Mind.* Infinity, through containment, includes all densities or realms as part of Its make-up. It follows, therefore, that every unit which has density is personal and important to Infinity, regardless of how insignificant it may seem as an individuality whether animate or inanimate; and because we as mankind are contained within Infinity, we belong, and Infinity knows and cares for us. It also follows that regardless of what we may attempt to investigate here on Earth, that too must end at Infinity as basic or primary cause.

If then we are to tap the forces of Infinity as energy at a level beyond our present understanding and ability, i.e., beyond fuels such as wood, coal, oil, atomic power, etc., we must first accept the densities or realms by which we and all other energy forms relate to Infinity. We must KNOW Infinity to the degree that we are at ease when discussing it.

One of the growing pains of any young science is that as each field of endeavor enlarges in scope, it turns to specialization. In the not too distant past, an electrical engineer could be familiar with all known applications of electricity, but now, with the present complexities and increased scope of knowledge, this is no longer possible. Each scientist knows more and more of a particular specialty and less and less about the total knowledge available. The same story is true in all fields. For instance, in medicine and health care the ratio of general practitioners has decreased, and the number of specialists has increased to the point where specialization is the rule rather than the exception. Although this specialization gives more information and adds to the total knowledge in every field, these findings do not necessarily become generally known or applied by other specialists even within their own field of science. Of necessity, each specialist is giving less attention to the whole body of science while pursuing his or her chosen specialty. Science has now reached the point where it is possible to program all pertinent data of any and all fields of study into a master computer; however, it is hard to find an individual person capable of asking that computer-complex the proper questions to get an accurate and complete answer to a specific problem. Thus it is essential that all sciences have one basic framework (One Law) to which they can relate. There must be found a common ground for all of mankind's developed knowledge and specialties, for only by this means can tensions, conflicts and misunderstanding between the various branches of knowledge and beliefs be eased and possibly eliminated altogether. Without One Law as source of basic cause for reference, each search becomes as involved as it would be to try to visualize how our unabridged dictionary could have

resulted from an explosion of a massive container of letters and symbols, or how inanimate material could develop Wisdom, which it does not and can not know. More than ever before, we must remind ourselves that throughout the ages, each and every breakthrough of any consequence has been the result of expanded concepts that led us more deeply into the affairs of the Cosmos.

The early manipulation of electricity led to the discovery of radio, which expanded basic electrical concepts to relate to Electromagnetic Space. The reference of radio to Electromagnetic Space became known as a Space constant called "speed of light," which energy constant has a known velocity of 186,000 miles per second and is also the measure in length of how far a transmitted signal effects Electromagnetic Space in one second of time. This constant is the C in the nuclear physics formula, $E = MC^2$ (energy equals mass times constant squared), and is an example of expansion and involvement with the Cosmos due to the expansion of a single breakthrough that started with the discovery and application of electricity. Even though the source of this positive energy constant is still questioned by the body of science, it has served well. Our young sciences have gained rapid growth with this single, basic constant as a notable part of its foundation. The positive quality of energy and substance found in the atoms in the form of protons, which in the beginning of this science was known as vitreous electricity, has been extended into Space by the light formula of nuclear physics. Its use and application has resulted in fantastic accomplishments, even helping to make possible our limited Space travel. What then can we conceive of happening in the field of science if we were to also extend the negative, resinous electricity into Space as a contrast to the positive, vitreous electricity?

Since the scientific body adopted only the positive state of electricity, science can allegorically be said to have accidentally mistaken a large limb of the tree of Cosmic Science for the main trunk of that tree, and then, while investigating this limb, to have progressively reached twigs and leaves, i.e., the

science of particle physics which includes the study of elementary-particle interaction of micro-second duration. Within particle physics there is much confusion when each research ends in a state of undeterminable cause. If, in theory, we retrace our steps to the main trunk of the tree of Cosmic Science, from which all limbs, large or small, branch, we will simplify rather than complicate this science which in particle confusion seems to have reached blank Space.

Should we chance to see an electronically driven robot testing strength with a physical man, we could write volumes of conclusive data on the application of force as used by the robot for power. On the other hand, armed only with the limiting theory of one state of force, we cannot write even one conclusive chapter regarding the source and application of man power (biological electricity). We can describe how it appears to be, but not conclusively how or where the force originates. The answer lies in expansion of concepts. We must have two contrasting states of force and a suitable frame-work within which they can operate harmoniously.

As we evaluate forces near at hand, we see that a contrast is always present for anything at all to have substance and variety. In color, black must have white for reference if we are to know gray; in chemistry we must have alkaline to contrast acid; in crystallography we have unsymmetrical, rhombic, spheroid or diamagnetic crystals to contrast the symmetrical, cubic, true sphere or paramagnetic crystals. For Nature to supply combinations of elements in the atom there has to be a negative to contrast the positive realm we call "speed of light." With only the positive constant as a reference in regard to energy, which operates our electrical devices, we are faced with the necessity of dividing the one recognized state of force into two contrasts. We can be seen by Nature as operating a teeter-totter board with only one end, which has a generator mounted on the fulcrum working to pump electrons into a state of lack and excess. (Fig. 1a) Unlike us, Nature has a teeter-totter board with two ends. (Fig. 1b) The fulcrum on which the board rests allows for interaction between the two

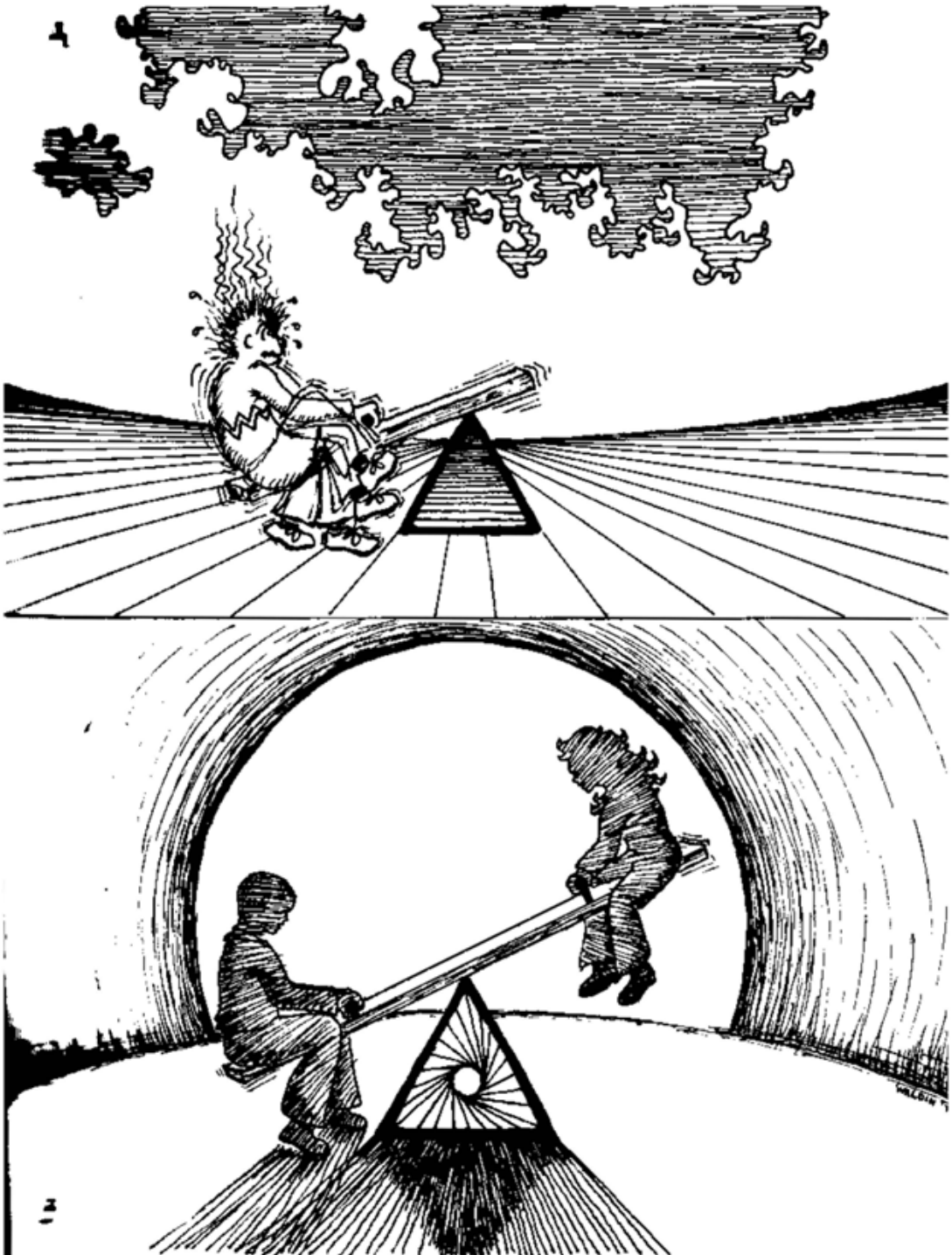


Fig. 1, a. MAN-MADE ELECTRICITY, PUMPED BY FORCE
Fig. 1, b. NATURE'S TEETOR-TOTTER WITH BALANCED LOADS

contrasting loads and at the same time separates or isolates them one from the other. This cosmic teeter-totter is coupled for drive into a dual velocity, one of which is the known positive constant (speed of light) and the other is the still unrecognized negative constant. This duality which is drive and substance, is as real in its state as is the ordinary hydrogen atom which has only a positive proton and a negative electron.

The positive proton of the atom relates to Sun-oriented force and thus to any electromagnetic center clear to Infinity. When we also expand the negative electron theory to Infinity, we have a foundation for planetary forces, planetary gravity and also for a reasonable theory that Nature is Universal and works her miracles everywhere with tools available at any point in the Vast Cosmos even as here on Earth.

It is known from scientific experience that the two charged forces which are held stable in the atom, dissipate with great release of heat when the isolation of the atom home is destroyed by altering the effectiveness of the stable, uncharged forces within the atom. Thus an expanded atomic theory which relates directly to Infinity can be formulated as follows: The same stability that is present in all atoms and in all materials that contain these atoms, is also present in Energy Space from which they originate, and each is secure when allowed to remain in its natural state.

Energy congealed in matter is known to be stable. Proof of stability at an intangible level beyond the electromagnetic forces has always been here, although cloaked in controversy and disbelief. Because there was no scientific theory by which it could be explained, it is not included in scientific writings. Fortunately, however, in many encyclopedias, including *Encyclopaedia Britannica,* specialists from many fields have put their findings in the same library of factual, compiled data, and because of this, we can find mention of many kinds of life sciences that are not available in specialized scientific writings. There under the heading of "firewalking" we can find reports that shed revealing light on this stability. *Encyclopaedia Britannica* reports that the nearly unbelievable feat of

firewalking is a religious ceremony common to many races which has been widespread in all ages and is still practiced in many parts of the world, although never successfully practiced without faith and belief (Mind Power). The ritual of firewalking may take many forms, but it always involves a person, or persons, generally barefoot, walking slowly though hot embers, live coals or even an open fire, without inflicting burns or other injury to the body even though there is no special protection or insulation used. Amazingly enough, even the clothing of the walker does not scorch or burn.

Firewalking then, is more than a physical act. It is evidence that a knowing consciousness, using Mind activity, operates from and within a greater, more authoritative density than that of our electromagnetic, physical body which, since it has no volition to act on its own, must be termed a tool of expression for the Mind that operates it. The idea of firewalking as an example of Mind force over electromagnetic force may meet with resistance in some scientific circles. If so, it should be remembered that those who do firewalking achieve that ability by giving mental attention to its development. It is Mind, or mental attention that triggers each and every pursuit including both firewalking and the activities of the physical scientist. The difference between them arises from the contrast of applied Mind upon different states of matter. The physical scientist, using Mind, developed indirect methods to release heat from wood, then step by step to the act of achieving release of heat by the application of nuclear physics (the atom bomb). The firewalker, far removed from these surroundings, developed his demonstration of control of heat by direct application of Mind. His methods can also fulfill the science requirement which states that the demonstration must be repeatable by a given formula. The difference of opinion arises from the fact that the physical scientist whose attention is upon another venture, cannot perform or explain the feats of the firewalker. It is equally true that the firewalker could not substitute for a learned scientist who is a specialist in any given field.

The paradox of theory and physical experience is deeply entrenched. The physical scientist whose experience is that of activating inanimate substance, sees science to be a parallel of that experience. Thus, firewalkers and other demonstrators of unusual phenomena are tested for validity and authenticity by this yardstick. When firewalking, bending of metal objects, faith healing and other like demonstrations of Mind over matter were in far removed places or in a setting not of interest to the scientist, they could be ignored; however, when these phenomena come close to home by being demonstrated and talked of publically, the scientists are "on the spot," and more and more we hear it said "the scientists are mystified." Physical science enjoys a high level of prestige; however, in this changing time the publicity of feats that cannot be explained by accepted scientific theories are more and more of a challenge. If scientists continue to waste effort in suppression and debunking, their confusion can become even greater than mere mystification. In fact they will, allegorically speaking, be building a fence around themselves to exclude what does not agree. If theories can be expanded to include Cosmic Science, then everyone can be in harmony with all phenomena.

We have untold volumes of research data painstakingly gathered by the empirical scientists in all fields. These data expanded to be as personal and broad as Infinity will give the scientific mind, trained or untrained, the tool needed to solve mysteries of Earth and to use them in a fresh, new start at a higher level where mysteries of Earth move aside to reveal Cosmic Truths beyond. The choice and the challenge is ours. We have risen to the occasion before when we have seen a goal to achieve. We can do it again by seeking the higher goal, and with common effort, remove the barrier marked "Earth mysteries."

Chapter 7

The Electromagnetic Density

Density is a measure of energy or vibratory activity which may be in the form of a solid, a liquid, a gas or an unseen force. Ordinarily when we speak of density it is in reference to a state of matter somewhere between a very heavy metal and a gas, however, when we speak of densities in relation to an unseen force in Energy Space, we are speaking of a compactness which we cannot see and, in most cases, cannot feel or otherwise sense. We are constantly living with many types of unseen energy densities, both those which are natural vibrations of Cosmic forces and those which are man-made vibrations, such as radio and TV waves, microwaves, etc. All the while we are unaware that all of these vibrations are passing through us constantly. People not involved with manipulation of energy as density may think of energy as a whisp, but it is not so to those who are doing particle research on atoms, practicing the sciences of electronics or working with high voltage and heavy amperage flow of power producing and distributing systems. Neither is energy a whisp to the firewalker who depends on it for isolation from the heat of glowing coals as he matches that heat with a stronger force which he mentally controls.

The following report entitled "Heavy Heavy Star was found in *Popular Science Magazine,* November 1975, in the section "Science News Front." As the report is in the form of a news

item, we take the liberty of quoting it in full: "Until recently, neutron stars were completely theoretical, just twinkles in the eyes of astrophysicists. Now scientists at MIT have actually weighed one of the tiny, superdense objects. Vela X-1, a sphere a mere 10 miles across, weighs in at 1.7 times as heavy as the Sun. This is comparable, according to the MIT report, of a pea weighing a billion tons."

Weight, as used in this report, is described as being parallel to Electromagnetic Density in order to make it understandable to our electromagnetic senses. A neutron star, even as the neutron in the atom, is not directly measurable in weight by gravity standards, however, it does have density common to electromagnetic density, therefore its density is describable as weight. A lead atom weighs more than an aluminum atom because it has more atomic parts upon which gravity can push; thus it has greater electromagnetic mass and more resistance to electromagnetic gravity which makes it heavier.

Reports of density in Space issue from the use of landbased telescopes and orbiting X-ray radiation counters. Both instruments listen to, feel and register beyond the border or junction where physical eyes or optics cease to register. This is also true of the electron microscope that surveys, by reaction, the details of minute, microscopic structure. Scientific reports give running accounts of these findings in Space and of what they are interpreted to reveal. The first pulsar star, called a neutron star, was discovered in 1967 and since then about 140 more have been found. All are invisible to optics. Late in 1974 the first binary pulsar, which is a neutron star system, was discovered. This binary pulsar is a twin system in which one twin is stationary, while the other orbits it in 7.75 hours. As was found in evaluating visible systems, the center twin in this system has less motion, is less visible even to radio telescope, is harder to detect, is more stable and thus is more authoritative. By these methods even more invisible systems are being discovered by their detectable pulse and, as a unit, some of these are as massive as is a galaxy.

When these discoveries are evaluated, we can say of density: If objects or systems in far Space are indeed neutron stars and, like the neutron in the atom, not electrically charged, then we are observing a stable energy of Space which is more dense and stable as energy than the visible Space systems, even though to our physical senses the visible seems the logical foundation from which to measure density.

Parallel to astronomy, nuclear physics findings are going deeper into density. There has been much excitement in the field of elementary-particle physics since 1974. However, there is conflict in the field concerning the meaning of these findings, since each researcher tends to color his interpretations to fit his or her current personal experience of Earth (which started when they arrived on this scene as a baby). To non-nuclear physicists using physical evidence only, the discoveries that cause the excitement are but a microsecond duration twinkle of light said to be caused by a monstrous device which propels unseen particles to high velocity. However, to trained nuclear physicists who are emotionally involved in the experience, this twinkle of light coming from the invisible is an indication of high energy potential of variable strength and characteristics.

Nuclear scientists felt great excitement at the discovery of the "J" or "psi" particle which, though just a microsecond duration twinkle of light, was 1000 times longer than that of any previously known particle, but still only a very, very small fraction of a second in duration. The psi particle is three or four times heavier than the electromagnetic proton and is hailed as the first of a series of particles that are composed of quarks and anti-quarks, which are the proposed basic building blocks of all elementary particles. Initially, there were only 3 dense quarks identified, but due to past work in strong and weak interaction in non-electrically charged particles, a 4th quark was postulated as being necessary to fill a lack. The 3 basic quarks were associated with the neutron factor which borders the electrically charged proton on the non-electric side of the proton-neutron bridge. A 4th quark, if found, would need to be associated with the neutrino, a very free

state of force and still further removed from the electromagnetic side of atomic forces. When this 4th quark was discovered, it was named "Charm," which has been described as that property of a particle that survives a violent reaction without the loss of any of its charge or parts; i.e., Charm is indestructible, and the net charge of particles emerging from a reaction is identical with the charge of particles entering it. A late report in the Los Angeles Times, August 5, 1977, concerning particle research, tells of finding a 5th quark that is named "Beauty," and now the sights in that field of research are set on discovering a 6th quark, possibly the last one that theory calls for, and this quark is to be named "Truth." Charm, Beauty and Truth are steps deeper into uncharged electrical forces and into ever stronger and more authoritative forces.

Astrophysics and particle physics are probing deeply into density and thus are parallel sciences. Both are using nonoptic methods to probe density in the unseen realms, which is the realm where Nature works. Modern scientists who are investigating the electromagnetic realm in depth, along with the strong, stable and nonelectric forces which are co-mingled with it, are comparable to a consciousness as unseen as Nature, looking outward through physical senses and attempting to categorize what Nature has made from its greater depth of consciousness. Their basic purpose is to find where and how these findings relate to One Law, and how this unseen state can be described and added to other known facts to become useful and applicable as a physical science.

This writing is directed to all individuals, whether trained or not, who are interested in helping to resolve natural mysteries and contribute to develop a new, more personal and simplified basic science. Some, who by past profession or training have not become familiar with density as energy or the relation of vibratory activity to density, need a readily observable object that can relate to electromagnetic density. The image of a bin half filled with pellets, being able to keep in containment balls placed on top of them (chapter 5), gives us a mental image of physical density and density control;

[redacted]ever, we need an object that is physical, and also directly [redacted]ated with energy density and frequency rates of oscillation, [redacted] give us a mental image of the unseen density in these states [redacted] energy. We, with our electrical sensors, cannot feel our [redacted]trical environment any better than a deep sea fish can [redacted] great water pressure. However, we have the faculty of [redacted]gination and visualization; so, let us find a situation and a [redacted]ice that will help us to mentally visualize density, while [redacted]erving a physical object that relates to the unseen state of [redacted]ty and energy activity. One such physical object is a [redacted]on, flat array TV antenna, which has the built-in ability [redacted] receive both VHF (very high frequency) and UHF (ultra [redacted]h frequency) TV broadcasting channels. (Fig. 2) Such an [redacted]a has elements that are broadcast in 3 different frequency [redacted]ps. The long elements, marked A, represent VHF channels [redacted]through 6; the intermediate elements, marked B, represent [redacted]HF channels 7 through 13; and the short elements, marked [redacted]. represent UHF channels 14 through 83.

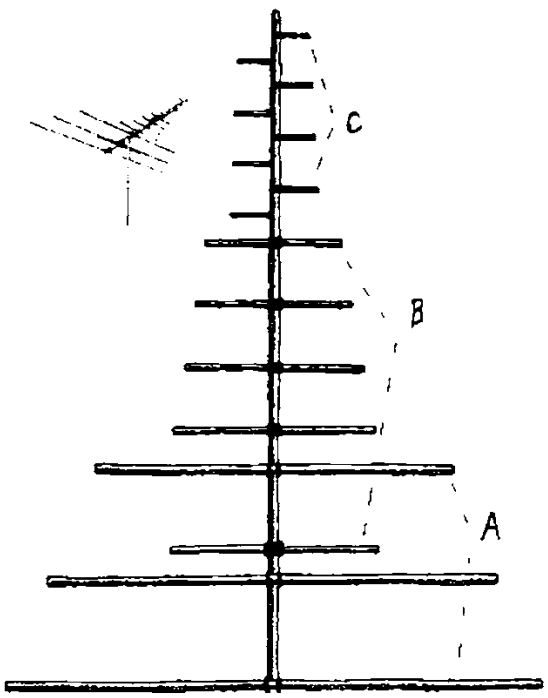


Fig. 2

All TV channels, regardless of the frequency in which they are broadcast, are the same size electronically. Technically a TV channel is 6 million oscillations per second wide (6 mega cycles), which means that wide or broad a vibratory path in the energy Space into which it is injected (broadcast). The antenna we see in the illustration is a tuned device, which means that the lengths of the cross arms, or elements, on each side of the boom are derived by dividing the number of frequency oscillations of the broadcasted channel into 186,000 miles, then the result divided by 4 and converted into inches. This length of the element is called "one quarter wave length" and tunes the antenna to the Space constant.

To give a mental picture of this relationship in electronic terms would mean little unless the reader had some degree of electronic experience; therefore, to depict the TV channels, we will use a house, complete with furnishings and people, as our mental image which will allegorically be subjected to different frequencies as in TV broadcasting. As a starting point of our mental imagery, we will consider the house to exist in the vibratory frequency state which is common to channel 4 broadcasting. Channel 4 is an electronic entity having an electromagnetic path 6 million oscillations wide (as do all TV channels). Its path occupies the electromagnetic space from 66 through 72 million cycles per second (CPS). In this example, our house, at that measure of frequency, appears normal in size as do its contents and its occupants. If we now move our house into the frequency of channel 10, which occupies electromagnetic space from 192 through 198 million CPS, the house and its contents would be compressed or shrunk. To the occupants who are also compressed, it would be exactly as it was when in channel 4 frequency, but to an uninvolved observer at a neutral point on the sidelines, the house with its contents and occupants would have shrunk, through compacting, to be much smaller in physical size. It would in fact, have changed in size to be a ratio of the length of elements A to elements B (Fig. 2). It would be the same in number of parts, only the area they take up would have been

compressed. If we then move the house and its contents into channel 14 (UHF) frequency, which occupies electromagnetic space from 480 to 486 million CPS, we would note an even greater change. To an observer the house and contents would have compressed by the same ratio as the length of the antenna elements B to C (Figure 2). If we now move the house and contents to channel 83, which occupies electromagnetic space from 884 to 890 million CPS, the compression would hardly be notable. What this means in regard to density is that the deeper into density any substance or polarity is found, the more room there is for its kind of containment. Thus size is relative to density. The higher its vibratory state, the higher is its energy density and by the compacting of its contents, the area becomes more roomy. The same house taken to ultra, ultra high frequencies, though still intact, would be still smaller in size and there would thus be more room for many more houses in the same area that was occupied by only one house at very low frequencies.

The higher the energy density, the higher also is the ability to perform without interference. This is basically why there is much more static in AM radio, which operates in kilo (thousands of) cycles, than there is in FM radio, which operates in mega (millions of) cycles. Beyond these are the microwave in which modern telephone operates long distance much more static free than was the direct wire connection from which telephone communication originated. Plans are now being made to move certain communication channels into the millimeter range for satellite broadcast. In this compactness, hundreds of communication channels could be accomodated in a bandwidth only a small fraction of an inch wide. A TV antenna designed for such frequencies would be so small that one could easily lose it in a pile rug. If on the other hand, a channel were broadcast at a low frequency rate of 0 to 6 megacycles, the 6 million CPS that is necessary to contain the channel in total would need an antenna 78 feet long on each side of the boom to receive it effectively. Moreover, such a transmission would interfere with all AM and

much other low frequency radio activity below 6 mega cycles, and there are a lot of them. Thus the only reasonable way to accomodate electromagnetic TV is to make that entity a very high vibratory entity and thus place it into the density where there is much room for it to enjoy interference-free operation, and where it can operate as a stable, static-free entity without undue interference to others in that density.

We have learned to visualize and talk of the electromagnetic spectrum with comfort and to accept that it is quite real as a Cosmic state of energy, even though 99% of it lies beyond our physical vision and our senses can analyze it only in part. We can accept this total, unseen spectrum as a tangible substance because when it is manipulated as a tool, it responds to our efforts without resistance. It is ready to serve us if we approach it in a natural manner, as is done by those using solid state electronics, which supplements man's natural abilities of automation, computation and logic.

Everyone, just because they are alive, has unknowingly experienced touching the great density of the electromagnetic realm all the way to the borders of Infinity. The active energy at high frequency levels has been named "Cosmic Rays" and those of the scientific body, who have scientifically measured and experienced the entire electromagnetic spectrum, seem to become so emotionally involved with the electromagnetic realm that they, as a body, see this realm as the foundation and source of Life. This is true in spite of the fact that there is a great deal known about other densities and energies that are not electromagnetic, and which are credited with being more stable, authoritative and permanent than the fleet, everchanging electromagnetic forces that have built-in motion.

Our consciousness need not travel physically from place to place to visualize and design electrical devices, which we use to create oscillations and pulses and which can be injected into space or into controls for machines. Though we utilize our fantastic physical senses to inspect electromagnetic congealment, we do so from an internal, mental state of stability that is not in motion as is the Electromagnetic Density. We

mentally are a consciousness in deep density looking out, as though through a living picture window which is the composite of our physical senses seeing the fantastic Electromagnetic Density and experiencing it. Because of the penetrating quality of nonelectrical Deep density, our consciousness need not expand in size to know macrocosm or shrink to know microcosm. The Consciousness has no electromagnetic size. Because of motion, the Electromagnetic Density is a stream of Life activity. While we are involved with this restless, unceasing motion, we try to create a measure of stability in it. The Electromagnetic Density in that respect is forced choice. If we cease to move in harmony with it, it passes us by and our stability goes with it.

Chapter 8

The Other Density

Regardless of how fantastic is the Electromagnetic Density which we have discussed, it is not nearly as fantastic as is the "Other Density" which must be recognized if we are to develop a clean and abundant energy source. The Electromagnetic Density by itself is like a ship in a stormy sea without a captain, or worse still, like a complete moon lander system of launcher, orbiter and lander, without NASA and their computer complex. Ships and space probes along with their methods of propulsion are the result of electromagnetic sciences, but the designs and construction as well as the stability and effectiveness of these sciences are directed by Consciousness or Mind. The consciousness of the captain and of the men who make up NASA has never been seen with physical vision, but neither has 99% of the Electromagnetic Density. Our physical vision can see only that portion of the Electromagnetic Density which is in frequency focus, and none of the forces in the Other Density. Because the Other Density is not electromagnetic, it does not supply electrical resistance for our physical senses to detect.

In the science of nuclear physics there is evidence of two densitites: the Electromagnetic Density and the Other Density, which is not electrically charged and which at the

deepest penetration of research is stable and indestructible. We will summarize the research leading to this evidence. Before the advent of the atom bomb, the electron and the proton were considered to be the strong, electrically charged forces in the atom, and parallel to them, gravity and magnetism were considered to be the strong forces of Space. Following the atom bomb with its great release of heat, these electrical forces gained still more prestige as strong forces of Space. After 3 decades of manipulating the atom, the non-electrically charged forces are likewise considered to be strong forces. The neutron bordering the proton is recognized to be the strong force at that junction while the elusive neutrino, still further away from the electrical forces, is recognized under certain conditions to be a strong force, and the neutrino quarks are considered to be indestructible. The electron and proton of the atom and magnetism and gravity of space are considered to be one and the same forces, the difference being one of state only. Currently there is a conflict because the strong, nonelectric forces found in the atom cannot be proven to be caused by magnetism and gravity, nor by the proton and electron. It took billions of dollars and countless man-hours to discover that all forces of the atom do not appear to have an electromagnetic cause. One discovered fact though is well established. The electrical stability of the atom depends on the strong nonelectric force for stability.

Electronic physicists are planning advanced communication into still greater depths of density in Space, which tells us that by scientific experience the Electromagnetic Density is accepted to be stable even in very high densities. Since it is known that at the atom level, stability is supplied by the strong, non-electrically charged forces, it follows that the same must be true regarding the electromagnetic forces in Space. Therefore, the cause of the stability in space is supplied by strong, non-electrical forces co-mingled with electrical forces. The Other Density is free to instantly apply stability in any frequency or state throughout the Electromagnetic Density, because it is not electrically charged and thus is free of electrical resistance.

By the principle of containment of systems within systems, One Law can mentally be seen to be based in Infinity and in Vibratory Stillness. From electronic sciences we know that within the electromagnetic realm, the greatest density is the most compact and the most roomy; also that wherever it is found, the electrically charged density is also motion and is never still. Therefore, although the Electromagnetic Density borders stillness, it cannot be Infinite Stillness and still be the density that it is. The Cosmic foundation is unmovable Stillness. It is a strong force so compact that no other force can penetrate or influence it. The foundation and authority of the Other Density is parallel and *co-mingled* with the Electromagnetic Density wherever it is found, and consequently in every substance built of atoms from the most minute to the most massive.

It is said that our complex physical body is like a mini-universe. To this we must add that it also consists of two densities. When we quote, "Prison bars do not a prison make," we are saying, "you can contain my physical body, but you cannot contain me as a consciousness, because my consciousness is in the Other Density." The Other Density has no electromagnetic resistance so it cannot be confined by any electromagnetic means (iron bars). However, as is shown in atomic research, the Other Density can and does contain and regulate the Electromagnetic Density. Each atom, cell, organ, etc., throughout our body contains both densities. We are Spirit with physical experiences (soul) using a measure of Wisdom.

The floating decimal in an electronic computer is a measure of the power of numbers, but there is a much more sophisticated floating decimal which allots to us a personal gate to Cosmic Wisdom. Every living biological form has a floating decimal which determines the style and scope of its personal tap of Cosmic Wisdom, and allocates sufficiency to meet the need and purpose of its being. A single cell organism has within its form an allocated amount of the Other Density consciousness to serve its purpose for being and to assure survival. Accordingly, up through the animal kingdom, each form and species has its distinct measure of Cosmic know-how and authority sufficient to guide it without effort to perform in the manner we call

"orderliness of Nature" or "instinct." The floating decimal in mankind is of greater scope than in animal or vegetable life. We have the extended privilege of self-choice as to the measure of Cosmic know-how and imagination we use to fulfill our needs to be a living being with personal and individual aspirations, emotions and achievements. Our personal floating decimal allocates to us the right to use an ever greater measure of Cosmic Wisdom. This potent force in us is a measure of Cosmic Density and is used by us to manipulate Electromagnetic Density in all of its variety. The Cosmic plan of orderliness is a heritage, even though we may call it instinct or intelligence.

Whenever mankind practices self-choice and self-government, Stillness is a basic factor to the extent we use our floating decimal. Mankind sits in comparative stillness of national office which has granted common authority, and from there attends to the affairs of state. Those in office mentally see the problems that arise from changes, both Cosmic and man-made, and mentally instigate laws intended to be more in harmony with unavoidable changes in evolution of society. Stillness, in this case, is the lack of physical activity with a predominance of mental activity. With capabilities not common in the animal kingdom, mankind also regulates the affairs of corporations and other enterprises which they have created, to which they give physical status. Each group of corporate or company officers and voters, authoritatively, in the name of that entity, regulate the far flung affairs of that entity, which cannot be physically seen and whose problems those who regulate it may never have physically witnessed. Even the tribes who have never heard of, or seen an example of, state or corporate law, make regulations from a central state of accepted authority (the chief's hut), and order these laws fulfilled for the intended good of the tribe. Stillness regulates motion even in traffic. Stationary traffic signals regulate fast moving and intermingled traffic in an orderly manner. This is true of navigation aids and rules of the road, the sea and in the air. The faster and less maneuverable that traffic becomes, the greater is the need and extent of the regulations. Laws are made in stillness, but they apply to motion and activity.

Our body, from the atomic to the whole, is stable only because the electromagnetic filler is contained in a strong force pattern with cohesion. The strong body of us is the channel through which the consciousness operates and performs in this experience of Life. *Our physical senses are electromagnetic. Our consciousness and personal identity are sophisticated states of the Other Density.* The electronic solid state computer complex, and its temporary intermediate and permanent memory bank, is a copy of us and our two-density operation, though with certain limitations not common to us. A short review of electronic principles tells us much about our personal electromagnetic senses or sensors. This science started with the discovery of the most simple radio tube, which is a diode with a control gate. Di-ode stands for 2: cath-ode and an-ode. The current, driven with voltage, passes from the cathode to the anode and when a controlling gate (grid) is placed between the negative and positive points the simple di-ode becomes a tri-ode, or a controlled flow of current with the current flow always in one direction only. This simple tube, which made radio possible, became more sophisticated and more sensitive and made possible great advances in electronics, even to making possible the first electronic brain. One-way flow of current and controlled flow of current are in function similar in solid state devices, as in the conventional tube. Diodes and transistors perform these functions in solid-state devices. Integrated systems of these and other electronic components can best be called a sophisticated array of diodes and supporting capacitance and resistance. In this analysis, which is a comparison of our physical senses to electronic functions, we are basically interested in the one-way flow of current and the one-way diode function. The heart of the computer complex is an array of sophisticated diodes. The operator of this computer complex stands directly behind the array of diodes, and the data that he triggers pass through the diodes as pulses and stay there until they are erased or stored in memory. The main difference between us and a computer-operator combination is that we are self-contained, i.e., we are two densities

in one. The operator of the computer-complex reads the computer data with physical vision. We live in two densities and have access to the data without physical vision or senses because the Other Density, where our consciousness is, has no electromagnetic resistance. Our consciousness does not recognize a one-way diode, and thus we can consciously know and sense our whole body. We are in total a Consciousness and a subservient body. Our diode-like physical senses cannot sense backward toward cause; they must sense outward to experience, neither can they talk back to Consciousness even though Consciousness, deeply involved in the experience, is strongly swayed by what the senses feel. In this state of Life we as a body, are a re-actor within the Electromagnetic Density which is a density of contrasts: positive and negative, paramagnetic and diamagnetic, acid and alkaline, steroid and peptides, and contrasting hormones and enzymes. These at different levels are Nature's teeter-totter and by this cause and effect we as a consciousness operate our electromagnetic form. With automation triggered by desire, we instigate primary motion to our muscles which then compress and relax to perform motion. Our entire body is a very complex arrangement. During waking hours when our I is in control, the subservient body is on stand-by until called upon by Consciousness to perform. In a like manner our brain and its memory are on stand-by waiting for Consciousness to direct and use them.

When we fall asleep, it is a definite, two-density happening. Our Consciousness withdraws from active coupling with the physical body. The body, its physical ego and its memory bank all become inactive and the involuntary functions, which are of cosmic origin, carry on during this sleep period of rejuvenation. We call this falling asleep, and there are times when this falling seems to be very real. The normal state of going to sleep is smooth, and we are unaware of the occurence of sleep until we awaken and know that we have been asleep. There are times though, that we feel as if we were literally falling as we go to sleep and we awaken with a mighty jerk. This seeming fall is that of the Consciousness moving upward from the body

in a normal manner except that it is done a bit prematurely and the de-coupling takes place while the senses and sensors are still active; thus the body seems to be falling rather than the Consciousness raising upward. This is comparable to certain inaccurate reports of movement our senses may give us even when we are awake. For example, when we are parked at a stop signal among other cars, and an auto along side of us moves while we are looking at it, we automatically jam on our brakes a bit harder because it seems to us that we, rather than the other car, have moved. We need a third reference to physically know which car has moved. In falling asleep there is no third reference as our eyes are closed. There is though, a mental reference which is the sensation of falling, and the sudden jerk is a cancellation of the separation of the Consciousness from the body, or of falling asleep.

The separation of I and my body can be known at many levels of awareness. Another unusual happening, which sometimes takes place when falling asleep, is to suddenly become aware of being paralyzed and unable to move any part of the body. This generally happens when the one going to sleep is both physically and mentally fatigued. In this state of fatigue the de-coupling in the process of going to sleep takes place physically but not mentally. The Consciousness is aware of the physical form, but its communication exchange is deactivated. This writer keenly remembers struggling in near panic, to move even one finger while in this temporary state. This occurrence of paralysis, both when falling asleep and a few times in awakening from sleep, happened when I was an early teenager. It was my first experience with two states of Consciousness (two densities). It was an early challenge to reason within myself concerning the relation of the physical body to the Consciousness and to gain a feeling that there is a personal Life apart from the physical form, and thus that I could operate independently of it. This reasoning made it possible to experience what is commonly called out-of-body experience without fear. When fear is removed by reasoning, it becomes

easy to overcome paralysis which is encountered in connection with sleep, and also to go to sleep without fear of paralysis even when mentally and physically fatigued.

Out-of-body experiences have been knowingly practiced throughout history, especially by those trained in mental rather than physical pursuits. Recently, there has been much written about this experience, and the belief in Life after death is widespread. A current survey shows that about 50% of today's teenagers believe in some form of life surviving death, and in spite of public teaching, only about 17% believe in the theory of evolution so thoroughly that they believe in death as the end of conscious Life, or that the physical is the cause of the Consciousness.

Although the ultimate proof of Life after death comes at the end of this life, such proof comes too late to help us understand our relation to the Other Density during this experience. We need that understanding *now* to help remove the barrier that stands between limited and unlimited supply of energy and other Life support. At the time of this writing there is an increase in the reports of out-of-body experiences, in spite of the fact that they stir disbelief and skepticism in various fields of science because they do not fit into what is considered pure science. The most personal of these reports relate directly to Life after physical death. They speak loudly of two distinct realms or densities and tell of basic differences between the two. All of these experiences give reports of the Consciousness separating from the physical body, and are usually associated with an experience of some physical crisis which leaves the body near to death, or even technically dead (which fact is substantiated by hospital and doctor's reports). In all cases the reports given by the persons who had the experience are basically the same, telling of the individuals suddenly finding themselves, as Consciousness, gently floating above their physical body, free of gravity and able to move about merely by the desire to move. Often, if the physical crisis is known to others, they will see those closely involved such as doctors, nurses, etc., attempting to save their life and

also see members of their family and wonder why all are so concerned with that physical body. If their attention is directed away from the immediate area, they see vivid colors that may have size and shape similar to those they left, but in a setting that is more peaceful and tranquil. Although detached from the physical body, the entity is aware of past experiences in that body; however, there is no special desire to return. The most common reason for returning to the physical form is a feeling of duty, or an obligation to those who would suffer if they did not return.

For those of you who wish to look deeper into out-of-body experiences there is a nearly unlimited source of reports to be found. These reports are world-wide and found in many weekly and monthly publications, in many recent books telling of investigations and studies, and also in ancient books such as the *Tibetan Book of the Dead.* In fact, the reports of experiences in this field are so numeous that one hesitates to mention any special one because so many will be omitted; however, there are two recent books that are of interest. The January 1977 *Reader's Digest* contains a condensation of the book *Life After Life,* which was written in 1975 by Raymond A. Moody, Jr., MD, who also has a Ph.D in philosophy. Another book on this subject is *Death and Dying,* by Elizabeth Kubler-Ross. An interview with her is presented in the April 1977 issue of *Fate Magazine.*

Biological science is an energy science, as are the sciences of activating inanimate materials and man-generated electricity. Modern medical science uses advanced life-support equipment on physical bodies that are technically dead, and often that body returns to normal physical life. This action is definitely energy-associated and is a broadening influence to all sciences. The May 17, 1977 *National Inquirer* tells of a noted German physician, Dr. Paul Becker, who interviewed patients who had been technically dead for up to 5 minutes, i.e., they were minus pulse, breathing and blood pressure. When revived by modern means, each had their story to tell, and that story was of their Consciousness and awareness which was entrenched

in the physical body, surviving without it. It was called the "Soul leaving and going to Heaven," even by those who previously held no strong religious beliefs. Dr. Becker admitted that before he started these interviews, he thought out-of-body stories were "crazy"; however, he said that the evidence gathered was too strong to ignore—there is Life after Life.

Out-of-body experiences, allegorically speaking, are that of Consciousness backing up towards Infinity and into greater density (Other Density), and thus out of coupling with the physical body or Electromagnetic Density. Many of the reported happenings specifically agree that there is no sense of heat or cold, light or dark as is known here, and that the sensations, especially that of sight, are received without their going through a physical process of detection. The body that is known by the Consciousness in the Other Density is neither warm nor cold; the light that is known is not associated with light or shadow that is Sun-oriented. The sense organs that register electromagnetic contrasts do not apply in the Other Density. However, Life based in the Other Density knows all of the emotions, aspirations and deep desires that are common to the electrical side of Life. They are though, of higher essence and are expressed and felt in the realm of law and order. Thoughts and things do not have to pass through electromagnetic senses to be known; therefore, the Other Density is secure as a foundation of Life for the masses, because it does not have the possibility of secrecy that is prevalent here.

In many fields, science by the advancements in technology, is touching Life at a higher level. Each new finding is an expansion of science and thus serves to broaden the term "pure science," not by altering data, but by the expansion of knowledge. Invisible pulsars in Space, and strong, nonelectrically charged forces in the atom, plus an anti-state of matter at the atom level and pre-atomic, out-of-body experiences do not match most current concepts of Space. New scientific data, in order to fit, calls for a broader Unified Field—a Two-Density Unified Field, rather than one that recognizes only gravity and magnetism.

Many unusual demonstrations which now cause scientific frustrations can, with a two-density theory, become scientific tools for advancement, as well as giving an explanation of much electromagnetic phenomena. Let us look at some of these current happenings in the light of two-density theory. Uri Geller, a young Israelite, brought many unusual demonstrations to scientific attention. Some of these were the bending of metal objects, such as forks, spoons and keys, by mental attention rather than by physical force. He also identified objects and writings, which he could not physically see, and performed many other feats of electromagnetic phenomena. These are explainable only by a two-density theory. Consciousness, pattern and cohesion are based in the Other Density and interwoven with the Other Density. Consciousness and desire are direct influences at the unseen level of Life. Magic or deception must be ruled out, when we consider the fact that many others are now copying Geller, and that some of these are only 5-year-olds in Japan and elsewhere. It hardly seems conceivable that those so young could have become adept in magic or deceptions.

A later addition to those who copy Geller is reported in the May 17, 1977 *National Inquirer.* An artice tells of a 16-year-old Israelite, Ori Scoray who resides in Australia. When he saw Geller "do his thing" on TV, he retired to the kitchen and much to his surprise did likewise. Ori's demonstrations have won him a trip to Israel where he demonstrated his powers for scientific tests and airing at the University of Jerusalem. Those evaluating Ori's ability admit that though it seems impossible, the bending of metal bars and other objects definitely takes place. Within 5 minutes, Ori bent a stainless steel bar, a bar of brass and a third bar of steel. All of them were bent to a different angle than they would have bent had it been done by physical force. This was also true of the keys that were bent.

A modern demonstration of firewalking that is reported in *Guinness Book of World Records* took place in Phoenix, Arizona, on March 7, 1975. The temperature of a 25-foot-

long barbecue pit was measured with a pyrometer, as is used in a foundary to measure metal heat. It registered 1,830° F. The firewalker was Komar, a Hindu Fakir, born Vernon Craig in 1932 in Hamilton, Ohio, where he has been employed as a cheese maker. He is self-trained in many unusual feats of mind over matter. The information for these data are taken from a book, *Life Without Pain* copyright 1976 by Bost Enterprises, Inc., and written by the Amazing Komar and Brad Steiger. As two men, shielding their faces from searing heat, spread the coals in Wayne County Home's barbecue pit into a smooth bed, Komar prepared himself for the hot walk by calmly walking about until he felt ready to perform. Then as about 1,000 people watched, some about 15 feet away, Komar calmly stepped into the pit and slowly but steadily walked its entire length. At the far end a doctor awaited to offer assistance. He extended his hand to help Komar from the pit. "No, thank you, I'm alright," said Komar. When the doctor gave him an on the spot examination, he confirmed the firewalker's self-diagnosis. There were no blistering burns, only a slight pinkish glow. Unable to believe his finding the doctor took a second look; "Not even a small blister," he announced.

Firewalking is a phenomenon that admittedly remains a mystery even to those who have spent years researching the subject. It needs to be remembered that all of the research is done from the Electromagnetic Density and subject to electromagnetic laws only. When one remembers that the reported out-of-body experiences never included heat or cold, then the mystery begins to weaken. When we add the fact that strong forces contain the Electromagnetic Density at the atom level, where unbelievable heat is released without a resulting chain reaction, we weaken the mystery even more. When we further add that Consciousness and mentality are based in the Other Density, we can see still more light and less mystery.

Komar says of his experiences, "It is a form of out-of-body experience. I do not picture myself as standing apart watching the action in an astral body or anything like that. It is a sensational feeling, as if I am free of the body. It might be

possible to build up a mental field so strong that I can put a layer of 'something' between my feet and the hot coals. I feel heat, but yet don't feel it—it's a weird sensation that I cannot adequately describe. I cannot talk after I get into that state of mind. I walk around and around the coals, blocking them out to the point where they don't exist anymore. Although they're there, in my mind they don't exist. When I get so convinced, I walk a few steps away from the coals, raise my hands to let everybody know I'm coming through, pull up my pantaloons and start to walk across."

If there were only the electromagnetic realm, there would be no place for the withdrawal of Consciousness, neither would there be strong forces available for Consciousness to call upon to protect sensitive feet and body from extreme heat. With two densities to draw upon, Life can be many things in many situations.

Another two-density phenomenon is that of psychic surgery, which is the manipulation of flesh. Authentic psychic surgery is taking place worldwide, and although it is usually done without fanfare, it is thriving and gaining in prestige, in spite of unfavorable publicity and harsh measures to control its use. Without two densities, psychic surgery could not happen, but with the two-density theory, it is not only possible, but scientifically explainable as being possible. Although it is practiced throughout the world, it is probably the most extensive and well known as practiced in the Philippine Islands. Psychic surgery is the practice of healing by the parting or manipulating of flesh and body structure for the purpose of removing abnormal growths or repairing damaged physical parts, some of which are declared inoperable by conventional surgery (such as repairing an optic nerve). Those who perform the operations are untrained in the medical field and do their surgery without anesthesia or special attention to sanitary practices. It is often denied that surgery has been performed on the grounds that no scar is found after the manipulation, and that there are no infections in spite of the lack of strictly sterile operating practices. The untrained persons who perform

the operations report that they are assisted by entities from the Other Density (out-of-body entities, enjoying freedom from electromagnetic resistance), who have had past training in medicine and surgery while in this Earth experience. These entities direct and guide the entire surgery project to the extent that the untrained persons on this side are only the physical tool and a source of physical energy which can be, and is used to do surgery in the electromagnetic realm.

We have stated that both cohesion and pattern of biological bodes are in the Other Density, and authentic psychic surgery serves as evidence of this claim. Flesh, when made manipulative by the altering of cohesion, allows for the separation of abnormal growths and for correcting injuries, which are only imperfections in the physical filler of the strong force framework and pattern. The lack of infection is explainable by accepting that foreign materials do not belong in the pattern, and thus are discarded from the scene of the surgery while the area is in flexible or fluid form. The lack of a scar following psychic surgery is also explainable by the two-density theory. The pattern does not include a scar. Since the pattern was not disturbed by the manipulation which took place from the Other Density the electromagnetic filler flowed back to a perfect state, leaving no scar. The many forms of Spiritual healing, which includes the laying on of hands, also leave no scars because the unnatural materials and infections are caused to go back into the unseen intangible realm from which they came, this without disturbing the surrounding flesh or organ.

Theoretically, placing the substance of pattern into the Other Density is as logical as placing it in a microscopic bit of chemical substance of a cell (DNA), which most likely is a bridge or catalyst between the two densities. The pattern is permanently perfect in the Other Density and in Consciousness. This also explains why people can at times feel the presence of a limb that has been amputated. The expression "seeing is believing" relates to experience on the electromagnetic side of the diode barrier. To the senses reality stops at the diode. Anything happening at the other end of the diode is disqualified

if we think only with our senses and from accumulated programing data that relates to this physical experience. Things that are strange to the senses are not strange in two-density light. Though the senses demand visual or sensual proof, such demands can create confusion because of the built-in limitations.

Another happening that appears to have a two-density base is that of people not awakening from sleep when threatened by fire. Because this can happen even while camping out in the open, one cannot blame smoke suffocation alone as the cause of the person not awakening to the danger. When we consider heat and cold to be a product of the electromagnetic realm, we have a reasonable answer to the burning without awakening. Sleep is a stage between complete coupling and a complete lack of coupling (de-coupled) and comes from the consciousness moving out of complete coupling with the physical body, although not as far out as in an out-of-body experience. Thus in sleep the Consciousness, which is still partly coupled, cannot see the body as it can when it is completely de-coupled, or when awake and closely coupled. For this reason, in a state of deep sleep, the Consciousness is not aware of the danger of heat because it does not know heat (or cold) directly, since they are only felt and reported to the Consciousness by and through the electromagnetic sensors. A person can also freeze to death if asleep. Those who are caught in excruciating cold fight sleep due to exhaustion, since sleeping in extreme cold can be as fatal as sleeping in heat, because neither is felt by the Consciousness when it is detached from the physical sensors.

The neurosurgeons, in Chapter 2, were seeking to find where "perception occurs—where nerve firings become music or vision," and they admitted that they did not find such a point in the brain. These searchers are dedicated in purpose and diligent as well as earnest in deciphering their data, but they are handicapped for the lack of a basic framework broad enough to encompass their findings. When we recall that an out-of-body Consciousness is one and the same Consciousness,

that moments before was closely intermingled with the body, and that in this detached state they are still aware of the problems that they (the Consciousness and the body) were jointly involved in, we realize that the neurosurgeons cannot consummate their search for a physical spot where perception occurs, because that spot is entrenched in the Other Density and known only to the Mind.

Komar's firewalking fills a missing gap concerning the Other Density. He states from experience that while he is in the mood for firewalking, he is mentally detached from the feet that walk over the hot coals. Komar, in personal words, told us what primitive men who practice firewalking did not. He stated that his ability to protect the physical body from the fire was made possible by mentally dividing himself, to be active in two densities at the same time. While in this state, by or with natural desire, he can direct the Other Density forces to insulate and isolate electromagnetic heat that belongs to the subservient Electromagnetic Density. Komar's secret does not lie in conditioning his feet. A physician's analysis of Komar's feet was, "skin as soft as a baby's." When we combine what is reported in out-of-body experiences at the technical death of the physical body, and know that a strong force body accompanies the Consciousness, then strengthen this belief by reminding ourselves that Uri Geler and others alter cohesion from that state, then untold phenomena become two-density happenings. When this is scientifically accepted, then that science will mature to be more effective while also broader in scope.

Nikola Tesla, who pioneered alternating current principles still in common use to distribute generated electricity, was a genious in his time. His opinion of the future progress of science is quoted thus, "When science begins the study of nonphysical phenomena, it will make more progress in one decade than all the previous centuries of its existence."

Chapter 9

Living Pulse

Pulse is a natural phenomenon which has been detected as far into Space as man has been able to observe and test, yet it is as near as his own heartbeat. On Earth we asociate pulse with Life. When pulse begins in a developing form, whether it be in an egg or in the womb, we say that we are detecting Life, and when the pulse ceases, we say that Life has gone from that form. Biological Life, vascular systems, pulsation and circulation are interdependent; where one is present the others are also found. Even plants and trees have an active field associated with pulse, as is indicated by the circulation of fluids within their forms, which ceases when they die. The pulse and rhythmic breathing associated with Life on Earth is comparatively weak when evaluated parallel to pulses and rhythms detectable within systems of Space, which are progressively more dense. It is an established fact that all Suns pulsate. Our Sun is known to pulsate at intervals measured in seconds, but larger Sun pulses have also been measured. A report in *Science News,* August 20, 1976, entitled "Mammoth Quakes Jostle the Sun," states that French scientists, while using NASA's

orbiting solar observatory 81, which was launched in 1975, have measured monstrous oscillations (pulses) of our Sun's atmosphere which occurred every 14 minutes and had amplitudes of 1,300 kilometers.

Distant Suns are known to pulsate at variable rates from days to weeks in duration. These pulses are used to determine the distance of a Sun from the Earth. The longer the duration of pulse, the brighter the Sun is known to be; thus the rate of pulse measured as brightness and interpreted as distance, gives us a reasonably accurate measure of how far they are from Earth. When evaluated by electromagnetic standards, it is hardly conceivable that a dense neutron star (pulsar) could have become a pulsar by the death and collapse of a great electromagnetic system, as is postulated by a branch of science that is investigating it. In our evaluation of this we can logically ask, "If all living forms on Earth die when pulsation ceases, would not the same be true in massive Celestial Systems? If a neutron star of great density resulted from the death of an electromagnetic system of suns and planets, would not the pulsation have ceased rather than become great enough to be measurable here as a pulsar? Can we who know pulse to be an indication of Life, point to any example where pulse is transferred to another form by the process of death?"

We are told that our Sun and all suns great and small, single and binary, are nuclear furnaces and thus, we are told, nuclear physics is a natural copy of Nature. However, it seems hardly conceivable that we as a physical body could be as allergic to the radiation that is developed by nuclear physics if we, in fact, live within a Universe that operates by the principle of nuclear fusion and fission. If the countless pulsing suns that are contained within our Star Cluster, Galaxy, super Galaxy, etc., have all operated as nuclear furnaces for billion of years, spewing forth radio active elements throughout the Universe, then surely this would have contaminated the Cosmos to the extent that in order for us to exist in a living pulsing body, we would have to be radiation-oriented and immune to radiation effects.

In the theory of evolution, Life is depicted as having developed and sprung forth from the ooze of Earth. Nuclear physicists seem to be seeking to extend that theory by proving the neutrino to be a particle and a force with its foundation in the Electromagnetic Density. They think of neutrinos as electromagnetic particles that separate in that form from the atom during nuclear reactions. If this were true, Suns as nuclear furnaces would emit a steady stream of neutrino particles which could be detected by electromagnetic means. To prove this, elaborate means of detecting particles spewing forth from our Sun were set up. One method designed to capture these illusive particles was a 105,000 gallon tank of perchlorethylene (cleaning fluid) buried deep under the Black Hills of North Dakota. After 6 years of continued effort, contrary to expectations, the project did not bear fruit. No substantial stream of neutrinos was detected. Following this failure, another costly project is being considered which is to use Idium 115, a very rare and expensive element, to capture the neutrino and thus to substantiate the adopted theories concerning neutrinos and the Sun as a nuclear furnace.

We cannot with sound logic, assume that the biological pulse extends its influence into Space and creates pulse in Suns, neither is it logical that electromagnetic Suns create pulse in greater realms beyond the floating junction that divides the two types of forces and systems. If these assumptions were true, we would then have to state that the electromagnetic duality of Suns and planets is shrinking, or compressing into greater density and thus becoming neutron stars, or pulsars. Even the Big Bang theory, postulated by some as First Cause, is in reverse to such an assumption, as that theory depicts a great mass that violently blew apart and then congealed to form electromagnetic systems. There is a logical contrast to the violence of the Big Bang Theory. This is a gentle and creative theory which is in line with pulse, both as it is known on Earth, and as it is found as far and as deep into Space as has been investigated. The theory is: *There was and still is a great energy density (which is the seat of Wisdom) in the form of*

Primary Light and Ageless Time (ageless because there is no time reference beyond it). This Other Density still pulsates as First Cause, rather than having blown apart in a violent First Cause. The Other Density and the Electromagnetic Density, as inner and outer expressions of Life, occupy the same area of Space and operate as Cause and Effect; therefore, the Other Density must be the origin of Pulse and the foundation of all re-active Life and also a strong indication that we, as pulsing bodies, are coupled into Cosmic Energy. If so, shouldn't we shift our quest from that of detecting pulse only, to also detecting the re-active nature of pulse?

This writer has the unique experience of assisting in demonstrations of tapping usable electric energy by the use of a pulsing device, in which the electric pulsation resembled the pulse of living biological bodies, although at a faster pace. Following is a reprint of the first chapter of the booklet *Energy Unlimited,* which was written and published by me in 1968. This reprint gives an account of the experience.

A REVEALING EXPERIENCE

This booklet is prompted because of the author's desire to share his experiences and the results of his studies. Some years ago he was involved in a science experiment which proved to him beyond a doubt, that an unlimited energy source does exist and that it can be tapped. He has postulated a basic theory to explain this energy and he feels that he is on solid ground in taking a stand to reevaluate and extend certain basic theories in use today. He feels this because, in addition to many years of private study and research, he was involved in experiments with Lester Hendershot in building, operating and evaluating certain devices which generated electricity in usable form, but with no loss to any of its parts and without the use of fuel of any type. This period of experimentation started in the year 1958 and lasted for 2½ years.

Lester Hendershot first demonstrated a small device in the late 1920's. Stories and pictures were published in the *New York Times* and in other papers at that time. He reasoned that through his device he was tapping the earth's magnetic field and deriving electricity from it.

The author, because of his keen interest in magnetism and related subjects, checked into the Hendershot story and other stories which rumor described as having generated usable electricity by unorthodox methods. Although there were some frauds and perpetuators of wild tales, nevertheless findings showed him that most of these demonstrations appeared to prove their authenticity and lack of any fraud on the part of the conceiver; still interest and involvement by science in general was lacking even after they observed the demonstrations. This was because there was no known theory by which power could be demonstrated without either the use of fuel or an exchange of energy from one form to another.

Curiosity and diligent pursuit had its reward to the author, he located Lester Hendershot in the city of Cypress, California. Mr. Hendershot had for some 20 years been inactive in his research but in the past few years he had demonstrated, on a limited scale, a much larger device than in his early days. However, when we first met, Mr. Hendershot was confined to a wheelchair due to an industrial accident and at that time had no operating deivce. The last one he had made was taken by an interested industrialist from New York and a California engineer for evaluation of its construction and parts.

This was the beginning of 2½ years of wonderful but frustrating research. Frustrating because it was difficult to find common ground upon which the many interested and involved persons could agree. This is because of their diversified interests and opinions. This device was a new experience to each and no one knew the method or the reason for its successful operation.

Lester Hendershot wanted to leave to the world something of great value. Using his simple device to light conventional light bulbs, operate TV, radio and small motors, he could not doubt its reality; but neither could he explain its power when operating or why so often it would not operate at all. Interested associates and advisers wanted to believe that here in this device was a multimillion-dollar invention nearly ready for marketing.

As no device was available for the author to observe in operation, to fulfill his great desire one had to be constructed. Using instructions from Lester Hendershot, he painstakingly, without a model and with only limited specifications, constructed the first of five devices, which consisted of basket weave coils, electrolytic condensers, small transformers, a permanent magnet, 2 bell ringing coils and one hand-wound electrolytic condenser. After seeing his first inanimate device come to life under the influence of Lester Hendershot, the author knew beyond a doubt that here was in part the nature of the next

great breakthrough in science; and that limits based on studies of exchange of energy and/or quantum mechanics did not indeed exist. What did exist was the problem of how to get Lester Hendershot and associates to realize the magnitude of what was demonstrated and how to get cooperation of science, which was necessarily skeptical, that anything of value could come from limited scientific background.

During 1960 two arranged demonstrations to top electronic engineering groups were cancelled because of fear of revelation of an invention. However, in mid-April 1961, Lester Hendershot finally agreed to go all out in revealing every detail of both construction and operation of his device in an environment including men of science and the equipment needed to evaluate in detail the nature of the power generated by the device, and how this was brought about. However, Lester Hendershot passed away very suddenly on April 26, 1961, thus bringing to a close that phase of this project.

The author had, and still has, in his possession the last device which he had constructed. However, this device is only so much material without the influence of Lester Hendershot—whatever that may be—and the device does not operate.

There were several variations of the Hendershot device, and all of them operated. The device that the author made was a simple two-bank unit employing two sets of electrolytic condensers. The two negative banks were all hooked together in a common ground. The positive sides were each hooked to a unique arrangement of three basket weave coils within a single unit, which was 6" in diameter by 3" high. Fitting closely to the inner circumference of this triple coil was a condenser which was rewound from an 80 mfd, 400 volt electrolytic condenser, but dried before winding on a metal ring. The final capacitance was not critical. Units operated anywhere from .006 mfd to 40 mfd, but they were critical as to balance. Each side had to be within less than 2% in value to the other. Two small transformers were also used in the basket weave coil circuit, but value was not critical. The device also employed a large permanent magnet opposing two bell ringing coils, which in turn were wired to the two banks. This arrangement appeared to be similar to a pacer, as the magnet acted as a cushion to the bell coil circuits when they became activated. There were variations in capacitance, in inductance and even in circuit wiring, which all proved that the mystery of operation did not depend on a certain, exact type of device. Descriptions of other devices by individuals show a broad detail of mechanical construction, but all had two things in common: (1) they did generate electricity without the use of fuel or loss to any of its parts and (2) there was an operator who used individualized methods to trigger the device into operation.

W. Keeley, who demonstrated such a device for many years, is described in The Books of Chas. Fort. In personal notes, which were available in Los Angeles, he stated this concerning his personal works, 'I had thought that I could bring to the world a new source of power, but now, in this late date, I find that there is a personal influence involved which I cannot overcome.' This statement was made in reference to starting his devices.

In the early stages of experiments with the Hendershot device, it seemed at times that the easy way out was to deny that which was observed because it did not fit our accepted theories, despite the fact that there was no fraud or attempt at fraud. However, it became increasingly difficult to deny something observed and the result was to pursue it further, questioning the lack of understanding rather than the reality of that observed and experienced.

After over a year of experimenting with Lester Hendershot, it became apparent that this device was better described as a living, mechanical body, caged or geared into a force outside of itself. Its operation paralleled the relation of a windmill to the wind. Its becoming a living thing in space depended on a factor similar to that of a doctor massaging a heart that had stopped, or in triggering a heart with a pacer. This idea seemed at first too far-fetched to warrant further consideration, but became more acceptable after observing and evaluating a characteristic common to all units (devices) made by us, and also reviewing records or statements concerning other devices and demonstrations in the past. When a device, which was not in operation, was first started by Lester Hendershot, the homemade condenser, which seemed to act as antennas, would pick up voltage pressure slowly at first and then faster. Following this the main condensers would do likewise, followed by a near 60 cycle pulse, which could be heard as a loud hum on the magnet and coil circuit. This pulse would surge from one bank to the other. At the peak of surge into the condensers, an added surge of power was visible on the scope pattern. The voltage now across the load would be anywhere from 90 to 140 volts A.C., depending on the model used. The near 60 cycle oscillation was common to all units. On one unit a slight unbalance of the homemade condenser was compensated for by squeezing a soft spot on one condenser. After Lester Hendershot had started the device by squeezing it, his hand tired; so he turned it over to the author. A firm squeeze again started the output, and you may be assured that it was a thrill to hold this pusling condenser. It was a feeling of holding the pulse of the living universe manifesting itself in a machine, even as in a living body.

Seventeen years later, as I review my experience with Hendershot, in the light of much more scientific data and my evaluation of my personal experience and findings leading to the two-density theory, I can see more clearly what took place in the Hendershot device before it started to produce usable electricity in the form of pulses very similar to those produced by the early auto-radio vibrator. When I became involved with Hendershot and we started the first device, he used common earphones to listen for electrical activity in it. He stated, "When I hear a sound like a sea shell hum, then I know it is ready to start pumping." I supplemented the earphones with a sensitive amperage meter with which to detect initial energy flow. We found that if the setting, which consisted of a mental attitude of expectancy and a balance in the device, was favorable the audible buzz and the initial current flow would start and build together, parallel to the audible, high frequency pulse. When the current flow was such that it charged the condensers, then a near 60 cycle pulse took over and the condensers became accumulators driven by pulse from one bank to the other. Each pulse or surge into the condensers accumulated energy during the peaking of the pulse and caused an output toward the other bank greater than was the incoming surge. The device then produced a continuous alternating supply of energy, some of which could be tapped by a load, due to the fact that each pulse was accumulative beyond what it took to maintain the pulse.

It can be said of the Hendershot device, that as a mechanical device it was to Hendershot as is the electric eel's shocking organ to the eel, which is a series of electric cells or electroplaques. The pulse starts at one end and goes from cell to cell and a peak pulse travels the length of the organ, a distance of several feet, in time with the triggered domino-type pulse. This peak output in the eel organ is from cell to cell; in the Hendershot device, the peak was at either end where the surge was active. In this device the peak was used for energy output; in the electric eel organ the accumulated pulse energy is used for defense or for disabling a potential meal.

Many inventions have been accidentally discovered while the researcher, by trial and error, is seeking some effect or answer. Likewise, far reaching revelations have been made by accident, but sometimes because they did not fit into current concepts, they were overlooked. Such an occurrencé was the discovery of EMP. A mystery pulse described as a leviathan surge was published in *Fate Magazine,* October, 1968. It reports a past happening that was not published until it leaked out 6 years after it happened. We quote:

> According to Jack Robertson of Fairchild News Service, whose column appears in the *Electronic News,* a little known phenomena, electromagnetic pulse (EMP) is among the many blast, blackout and radiation effects produced by nuclear testing. In a story datelined Washington and pubished in October, 1967, he writes, The quiet predawn in Honolulu in 1961 was shattered by the simultaneous pealing of hundreds of burglar alarms. At the same instant, circuit breakers on the power lines started blowing like popcorn. Not a cloud in the sky so lightning could not be blamed. The power company failed to trace any gigantic electrical surge able to blow out virtually the entire system simultaneously. The mystery was solved later—then promptly sealed under 'top secret' stamp. The culprit—a high altitude atomic test bomb burst more than 500 miles away—the EMP phenomenon.
>
> The United States had been alerted to EMP a year or so earlier by the Soviet Union...but apparently no one took it seriously until the 1961 bomb showed the terrible impact of EMP even at vast distances.
>
> EMP is a leviathan surge of 10,000 volts per meter over a broad band. it sweeps over vast ranges causing effects in any electrical opening it can find. Despite a wealth of research, even today EMP is a great unknown. The nuclear test ban treaty shut off atmosphere tests before the United States could crank up EMP studies. The Pentagon declines to discuss EMP at all (admitting only that) EMP has 'unwanted effects on unprotected electrical and electronic equipment' and that it is continually testing weapon systems against simulated EMP.

This 1967-68 report was the last seen by this writer until November 17, 1974, when this article written by David Sentner appeared in the Sunday, Los Angeles *Herald Examiner:*

The mysterious, deadly and unpublicized EMP is expected to come under discussion at the Vladivostok meeting of President Ford and Soviet Party Chairman Leonid Brezhnev aimed at reducing atomic weaponry.

EMP means the electromagnetic impulse generated in a nuclear explosion.

Experiments have demonstrated that EMP from a nuclear bomb exploded near the surface will devastate communication systems including transmission lines, telephone and telegraph lines.

A declassified pamphlet entitled 'EMP Threat and Protective Measures' has been issued by the Civil Defense Preparedness Agency.

Instructions to Civil Defense workers indicate that the Soviet Union, like the United States, is investigating the annihilating effects of EMP.

Here are excerpts from the pamphlet:

Investigation of the effects of EMP generated in a nuclear detonation makes it apparent that the EMP could present 'a significant threat to many electrical and electronic systems particularly those used in communications and control circuitry.'

Another term for EMP is 'radioflash.'

The EMP is electrical in nature and is crudely similar to the waves radiated by a nearby lightning stroke or from a broadcast station.

However, in the case of EMP, the effect is widely distributed, while with a lightning stroke the most severe effects are quite localized.

High altitude nuclear explosions are much cleaner with EMP side effects covering a larger area than near-surface nuclear detonations and with less fallout.

Various electronic and electrical systems are subject to malfunction from the effect of EMP from nuclear detonations.

Typical damaging collectors of EMP energy also include:

Overhead power lines, railroad tracks, metallic fencing, metallic structural building members such as girders, corrugated metal roofs, buried cables, conduits, large antennas and metallic antenna support towers.

Most susceptible to damaging EMP effect are systems employing transistors such as computers, alarm systems, intercom systems, communications links, etc.

This later report shows a much broader effect of EMP than the previous one. Much research appears to have been done on both EMP and methods to nullify its effect upon conventional systems that are energy-associated or driven.

To one who has experienced the tapping of high grade energy, that functions as voltage drive and electric current in devices designed for our conventional electricity, this massive pulse, which was caused by unknown characteristics of an atomic explosion, is very exciting. With this personal background of experience the EMP event is an extended revelation. My Hendershot device was a small unit and the pulsation was developed by a natural process somewhat parallel to Uri Geller and others. Hendershot influenced a high frequency oscillation to begin, which then built up, an initial charge in capacitance and inductance.

The Hendershot device, when charged with high frequency activity, became a standing energy potential consisting of wires, inductance and especially capacitance. So also is a power distributing system a charged, standing potential. Because EMP pulse is, in part, within the stable forces of space, the effect transmits quickly over long distances with great influence on electromagnetic systems.

The manmade power distribution system is a sitting duck for a pulse that creates the proper type of a surge in energy Space. The surge of EMP does not of itself induce energy into the line, it does though do as our heartbeat does to us; it momentarily couples the system to pre-atomic energy in motion in Space and causes that energy to congeal into the system. During one second of time there is 186,000 miles of energy available for tapping, and it accumulates when the setting is right to tap it.

Energy, in the form of the two speeds of light passing through that system, was congealed by the strain of pulse into the system and created a massive build-up of energy that made fuses blow "like popcorn." This is a demonstration of Tomorrow's Energy. It, though, calls for a sophisticated approach to tap it in a continual fashion. The fact that the surge did happen and happens each time a similar situation is created, makes the happening scientific. The fact that this extremely great surge of energy happening did not or does not get the publicity that the discovery of a microsecond duration

flash of light does, even though both are triggered by the same science, tells us that it is the mental attitude of the searchers that hides one and publicizes the other. That attitude is to prove that material makes light rather than that Primary Light makes material. EMP casts doubt on that material theory, it is therefore called an unknown and ignored, except to guard against in man-made devices and happenings.

It is well here to recall a concern that was felt by some scientists at the time of this civilization's first atomic bomb explosion. Many of those gathered for this first test had mixed emotions and concern about what they were doing. Some feared that the chain reaction necessary for an atomic explosion would carry on beyond the bomb itself and extend by chain reaction in other atomic substance, even to massive proportions.

We live close to Infinity and Infinity forces. We live closer to Infinity in the Other Density than we do in the Electromagnetic Density. The electromagnetic setting is one of experience. We can literally make it heaven also if we apply more of the Other Density to our Life here. Such will enhance our experience and make it more meaningful.

Chapter 10

Two-Density Thinking

Earth mysteries cannot be solved by thinking in Earth terms alone. We are two-density beings, and we must think as such because Earth mysteries originate in the Other Density. We showed in Chapter 8 that the unusual demonstrations on the part of mankind, such as firewalking, etc., hinge on the applied use of two-density thinking. The beliefs, ideals and free thought of some of our scientific giants in their specific fields, were seemingly more influential in regard to their achievements, than was the formal education that assisted them to organize and publish their findings.

Sir Isaac Newton openly voiced his feelings about the fantastic Cosmos, which he was attempting to put into mathematical form. What he learned from his own physical observations, as well as from the observations of others, did not fulfill his mental vision of what was necessary for an orderly Universe. He knew by instinct that applied law constitutes orderliness and that law originates from mental, rather than from electromagnetic action. Newton felt that somewhere in Space was an infinite, Unshakable and Stationary Center to which all Celestial motion, large or small, fast or slow, related for its particular plan or mode of travel. He also stretched that reference to include all Space, by postulating that perhaps

Space itself could be that stable reference. He, like us, was having a physical life experience; however, he did not allow this to overrule his inner knowing—that Knowing which allowed him to expand to two-density thinking.

Another of our past scientific giants was James Clark Maxwell, who was a known naturalist in both belief and profession. He contributed a mathematical base for electricity and electronics which brought soundness and dignity to the young science. This was quite a remarkable accomplishment for a naturalist, since electricity is an unseen force. Maxwell openly denied the Darwin theory of evolution, which states that all new and different species of life developed from lesser species, which had an accidental beginning in Earth that was warmed by sunlight. He was able to contribute a sound foundation for electrical science, because in his mental aspect he saw Wisdom as being external to the physical. This attitude is two-density thinking.

Darwin's theories have not been physically or scientifically productive, nor did they contribute to any scientific breakthroughs, as did the works of Maxwell. On the contrary, they have burdened scientific files with a great deal of unprovable data and misleading assumptions. Darwin worked from the physical observations of external appearances only, which is strictly empirical or one-density thinking.

Max Plank, another past giant, was the originator of the well-known, but often little understood, Quantum Theory. His discoveries initiated quantum physics and earned him a Nobel Prize in 1918. Plank wrote extensively concerning the science which later was adopted and enlarged upon by Dr. Albert Einstein. Even as other giants of the past, Plank openly expressed his views of Life, which were broader than the empirical base. He is known to have occupied himself with philosophical and religious problems to which he devoted several publications. Here again we see an example of two-density thinking.

Dr. Albert Einstein, in his theory of Special Relativity, postulated the equivalence of matter and energy. In his Unified Field Theory he attempted to show that gravitational

and electromagnetic forces are not independent of each other, and that, though they appear as different functions of force, they must in theory have a deeper reality that is the cause of them both. He was well aware that he could not mathematically show the relation of gravity to magnetism, and saw the shortcoming to be that of the attitude of the observer, rather than what was observed. In other words, that which is studied and felt calls for more personal terms than was available to the young science that was attempting to find a mechanical base for Space, which was in line with what was accepted as pure science. Cosmologists for the most part, are influenced by their observations and gain a deeper inner respect for the mystery that underlies physical reality of Space. Some of them have been quoted as saying that the Cosmos appears to be as a vast sea of Mind that operates as a Great Thought. Einstein was even more free in voicing the respect that he felt for the Cosmos. Lincoln Barnett, in his book *The Universe and Dr. Einstein,* quoted him as saying, "The most beautiful and profound emotion we can express is the sensation of the mystical. It is the source of all true science. He to whom this emotion is a stranger, who can no longer wonder and stand rapt in awe, is as good as dead. To know that what is impenetrable to us really exists, manifesting itself as the highest Wisdom and the most radiant beauty which our dull faculties can comprehend only in their most primitive forms—this knowledge, this feeling is at the center of true religiousness. The cosmic religious experience is the strongest and noblest mainspring of scientific research." Dr. Einstein has also been quoted as saying, "Science without religion is lame, Religion without science is blind."

Those who pursue Einstein's mathematics only are not researching with the same driving intuition that influenced him. Surely then, their findings cannot be the same that Einstein saw mentally or in the Other Density. Einstein, who conceived the theory of Relativity of Space and Unified Fields of Space, knew what he was describing. He put his thought strongly into these words, "My religion consists of an humble

admiration of the Illimitable, the Superior Spirit who reveals Himself in the slight details we are able to perceive with our frail and feeble minds. That deeply emotional conviction of the presence of a Superior Reasoning Power which is revealed in the incomprehensible Universe forms my idea of God."

It is a fact that one has to search further than within our conventional science writings to find reference to the inner philosophical thoughts and emotions of the noted scientists of the past. It has always been those that follow who choose to present only the empirical statements and writings of these great leaders, and to omit references to writings or quotes of thoughts of a philosophical or religious nature. It is an accepted fact that what we give attention to is what we develop and become. The thinkers in NASA, who placed men and equipment on the moon without three feet of lead shielding to protect them from Sun radiation, were able to achieve because they refused to adopt past limiting concepts. The thinkers who expanded solid state electronics into computer complexes went far beyond conventional electronics, which was designed around basically good conductors of electricity. They are using semiconducting crystal structure in harmonious balance with paramagnetic crystal structure and achieving fantastic results. Many of them, if interviewed, could give their personal story of Other Density influence, as did William (Bill) Leer, who was an achiever, first in early and then in modern navigation instrumentation, later with a privately financed and developed jet aeroplane plus a more practical design of a steam engine and many other projects. When he was questioned on TV regarding his source of personal knowledge, he in essence, stated that he was a practical scientist and that in the subconscious, he went to Infinity for new ideas, because it is there that he got the answers to what he did not know from past experiences.

The mental giants of the past did their thing in their time frame, which was during a slower cyclic change than what we are now experiencing. Even as past civilizations have had highs and lows, we are currently involved in a rapidly developing

high. The Dark ages that followed the fall of the Roman Empire, was a transition period between two cyclic seasons. This was a time of mental stirring and was as the awakening of a sleeping giant of intellect. The heretofore snug Earth, that in concept was held to be the center of the Cosmos that wheeled around it, was released in concept to be a traveler of Space by such men as Copernicus, Galileo, Sir Isaac Newton and others. To those who were then involved in this experience, the awakening was gradual, but now the quickening intellect, individually and as a civilization is screaming for more action to meet ever new challenges and opportunities. We are faced with this challenge in both social and physical sciences. Can we keep pace with the change and mature into being a total science worthy of the tomorrows that lie ahead, or do we go down in defeat by protecting yesterday's beliefs? The example of expanded thought, demonstrated by past achievers is a guideline for future giants. We can be as great as we allow ourselves to be. Opportunity is knocking gently, but it is from the Other Density and can be heard only with the mental ear.

The current mental quickening that is making itself known, enables us to perform many types of miracles heretofore unknown to science in general. These in turn narrow the mental gap that exists between this density and the Other Density, to the extent that it is comfortable to discuss conscious Life after death of our physical body, and further to consider what this implies concerning Life preceding this Life. This Consciousness of ours (the I) that leaves the physical body behind at death, taking with it the memory of this experience, must be the same Consciousness that many years before, when in the body of a wee child, asks these pertinent questions: "Who am I?" "Where did I come from?" "What is the difference between mother and father?" Since there is an awareness (a Consciousness or an I) in both the physical and the Other Density, and in each case there is a suitable body to use, there must be a round-robin connection between the two states of energy congealment or material, i.e., between the two densities. The Consciousness, which is the I of the

Spiritual Ego, is loosely coupled to a baby body, and in this state it can and often does perform as a learned adult (child prodigy). Even though it may be expressing from permanent memory, we who have developed temporary memory of experience, see this deep inspiration as abnormal and not explainable. This ego that we call a physical ego is the composite of memorized experience and data, plus physical emotions that become programed into the recording organ, brain. As there is an electrical block (diode) between the two densities, this physical ego reigns supreme and feels that this is total life. Should it be asked, "What happens upon death of the physical body?" It has no choice but to answer, "Nothing, when you are dead, you are dead." Paradoxically, the physical ego speaks the truth—but only of itself, as without this body, the physical ego cannot survive. The memory of its experience though is deeply programed in the Other Density, and when the Consciousness is freed from the physical body, it remembers the experience and to it the experience is a Life treasure stored in the Other Density.

The physical ego's security lies in things. Thus it is natural for it to gather worldly goods and titles for comfort and personal prestige. These can be entirely selfish and self-centered as long as they fulfill the personal need for security. The greatest hazard to a civilization arises from physical egos assuming that Life is a possession; that they are Life, rather than a recipient of Life. The desire to so believe was no doubt the drive behind accepting and nurturing the theory of evolution of life from material, for in this manner the physical ego can justify even its ignoble acts.

Consciousness, which represents the Spiritual Ego, the I, is based in the Other Density. Thus when we say two-density thinking we mean thinking not only with the programed data in the brain, but also with Consciousness, to the degree that we can muster, via the floating decimal of Wisdom that is available to all mankind. Since the animal kingdom has a more limited tap and choice, they do not develop an over-powering physical ego with its complex memory as does

mankind. They live and let live without undue emotions while guided by Other Density influence, which is not as individualized as is ours. Mankind's deep individualism and the privilege of choice is the seed for both his constructive and destructive pursuits.

Two-density thinking is hard to pursue while deeply and emotionally involved in Earthly, physical pursuits. The setting we know as Mother Earth, effectively absorbs Other Density thoughts, due to her unique make-up. She is saturated with moisture, with oceans of water on and in Earth, in vegetation and in atmosphere. Electronically speaking, she is of high capacitance, which is a storage of energy. Capacitance is used in electronic circuits to dampen unwanted pulses of both low and high frequency, by absorbing them. Capacitance and inductance combine to create electronic resonance when suitable energy supply is applied. Cosmic forces acting upon Earth makes her a low frequency resonator, or a deep state of electronic isolation. Absorption of, or dampening of external high frequency influences, makes planet Earth a setting in which Cosmic Attunement is hard to know or achieve. We might say that Mother Earth is a hard school; however, a rough situation has its rewards. Commendable achievements in a rough school are rewarded with a lasting degree of high merit.

The more critically we evaluate our total expression of Life and Life experiences, the more certain we can be that Life and Consciousness are a most natural personal heritage, and that all else, including our physical form, is an expression of them. This means that absolutely everything that can be seen or experienced, in either density, is the playground and experience of Life. That in the greatest density possible, i.e., in Stillness, which is an energy solid of unbelievable compactness, is the base of all Life and the Cause of all material and material systems.

When we inspect our books of science and try to see total Cause, at the depths achievable by inspecting the effects of an unknown cause at hand, we become mired in the maze of many avenues that all lead into the unseen, each in their own

manner. The maze thickens when each science funnels toward a common destination, but as this destination is also greater density, the funneling toward a single Cause also spreads out, as there is more room the deeper we probe. There is, though, a simple solution to the confusion. We need to see the whole from the other end, even as we see a letter alphabet of two contrasting sounds each represented by a small group of letters. When we learn an alphabet and its flexibility, we readily see how this small group of contrasts of sounds can be unlimited writings in any language, and thus become a means of exchange of thoughts, emotions and ideas. Our still young science is attempting to compile a logical, single answer for unknown cause, solely from the volumes of differing data that have been compiled. The simple solution is to know the energy alphabet, which even as the word alphabet, lends itself to express in unlimited ways. When this is achieved with reasonable accuracy, then physical science in any field can be seen to be a variation of the same Cause. The energy alphabet is written in things material and as many of these things are individual Life forms, that energy language is one of Life projecting Life.

The philosophical saying, "Know ye first the Kingdom of Heaven, then all else will be added," is as complete a guideline as we can state. Scientifically speaking, it says, "If you first know the nature of Cause, then all things contained within that Cause will in some way resembly It and Its scientific make-up." It is not necessary to alter Nature to achieve. All things natural, including the total Electromagnetic Density, responds to a gentle manipulation by Consciousness or compatible physical devices. This applies to mankind as well as it does to the Wisdom we call Nature. Nature is our example of putting together, rather than taking apart. Nature's way does not have leftover energies (radiation) in forms driven by Cosmic Forces. Thus the expression, all else will be added, has a dual meaning: (1) the forces used by Nature add up to total abundance, and (2) Mankind, by developing a Natural Science, will add to their own stature and scope of operation.

Our physical ego is of our own making or the result of a Consciousness personally experiencing Cosmic Life in this setting. This physical ego, instead of seemingly being bound by strong chains of convention, can, by expanded experience, see the chains of convention to be forgings made in illusion's fires that fall apart in the light of Inner Knowing. They are as though made of Darkness, and when Cosmic Light is shed on these links, they, like any darkness, fade away to become Light that relates to Infinity.

Chapter 11

Curved Space

When we attempt to seek Ultimate Cause there are two distinct points of observation at our disposal. We can seek within electromagnetic material, using our physical senses only, or we can use two-density thinking where we allow our Consciousness to "backup" towards Infinity, while at the same time we remain aware of the physical world. Physical senses cannot look to the depths necessary to find Cause. When we look at physical material and ever deeper into the microcosm of these materials, we soon reach a point where we can no longer detect and decipher our findings because physical senses are designed for looking outward to our experiences, rather than inward to Infinity. However, by using two-density thinking, we constantly keep the attention of our physical senses looking toward our experiences and at the same time mentally or in Consciousness backup towards Infinity. In this way our viewpoint is constantly broadened to include the unseen, and our mental faculties are expanded so that we can eventually know how the Electromagnetic Density performs and how it originates by an interchange of forces from the Other Density. With two-density thinking we can use our mental capabilities to see from the direction of Cause, since our Consciousness is nonelectric and has no diode-like barriers nor does it have any blind spots or limited scope of direction.

Our first unencumbered step in Consciousness, toward Cause of the Electromagnetic Density, bridges the gap that lies between the known energy (speed of light) and that same energy congealed in matter. By Light we mean Electromagnetic Light, and not sunlight which is secondary polarity. Every atom in our body, including the eggs that triggered our body to be, are internally active at the speed of driving Light, even though this is unknown to our senses. Let us then establish a mental image of why this activity is ever present in the atom, causing it to spin internally and also have angular momentum.

Angular momentum means forward motion combined with spin, which makes a certain spot on the outer surface of the "spin" appear to travel at an angle while it is also moving forward. A good illustration of this is a rifle bullet, which is caused to spin by the grooves in the gun barrel while it also moves forward with velocity. If we mark a spot on the bullet's surface, this spot, due to going forward while spinning around its axis, describes angular momentum. The rifle bullet imparts velocity spin and angular momentum upon the target in its path.

Space energy, which is congealed Electromagnetic Light, moves in sophisticated lines of force and is basically polarity containing energy flux, not unlike the lines of force that form in a man-made magnetic field. Electromagnetic Light has 2 banks of lines of force, which are basic pre-atomic structure, that fill the gap between Electromagnetic Light and the atoms throughout Space. One bank is positive and supplies to the proton factor of the atom its characteristics, including charge and right-hand spin. The other bank is negative and supplies to the electron factor of the atom its characteristics, which include negative charge and left-hand spin. The driving power of the lines of force consists of a spinning field pushing a core of charged particles. The outer spinning field is right-hand rotation for the positive bank and left-hand rotation for the negative bank, so also spin the cores which consist of charged particles.

These invisible spinning fields and their reacting cores behave somewhat like our electrical current. For example, when a current conducting wire is grasped in the left hand,

with the thumb pointing in the direction of the current flow, then by known electrical laws, the fingers wrapped around the conducting wire point in the direction of an energy field encircling the wire, which field is caused by the flow of current. (Fig. 3) This spinning energy field is a spiraling 90° outer effect caused by a concentrated energy flow within the wire, which configuration is the exact opposite of that encountered in Energy Space. Here current causes a field, in Energy Space spinning fields cause internal current flow. From this strong core contrasting energy lines of force with opposite spin and opposite charge, impart their distinctive charges to the atom. The total characteristics of both banks of the sophisticated lines of force are imparted to atoms, which in a sense are coupled to their driving cause as is a windmill coupled into the wind. These opposite charges are stable both in Space and in the atom because they are thus held by the strong, nonelectric forces which act as a fulcrum between them, while also acting as an insulator and/or isolator. The cause of this stability comes from the Other Density and is a quality of two-density Space. The atom is a patterned unit within patterned Energy Space and is stable within this continuous pattern.

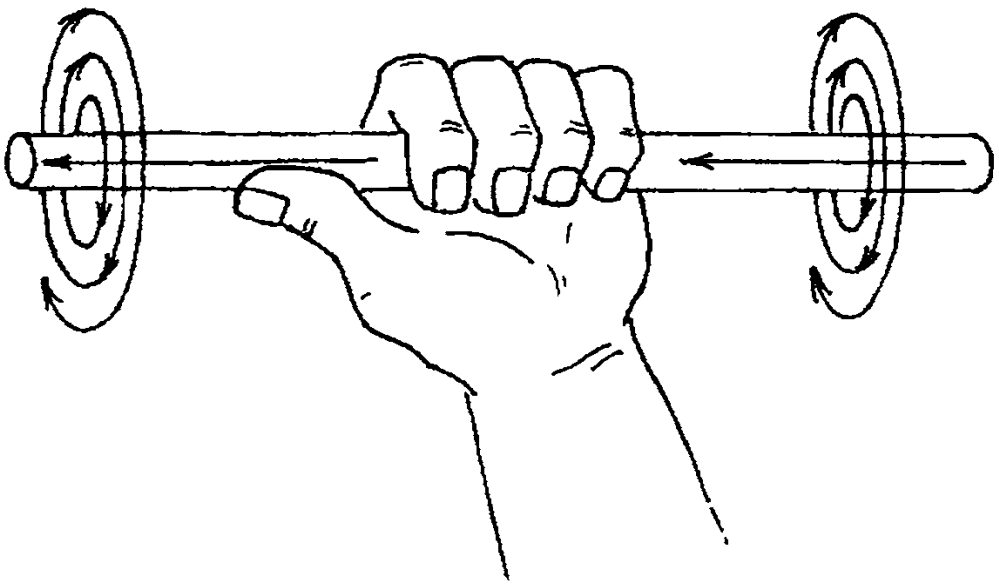


Fig.3, CURRENT FLOW AND CURRENT FIELD RELATION

The term angular momentum is freely used in astronomy. Planets, like bullets, spin while moving forward. Though the spin and velocity may vary, the principle is ever present. Detectable angular momentum though, includes only about 1% of our Solar System and this fact causes confusion in the minds of researchers. When we "backup" toward Infinity and see even greater angular momentum to be caused by a bandwidth of twirling Space, which twirl also has velocity, then both atoms and planets can be seen to react to the same basic Cause, and by recognizing this, we are expanding our physical horizons toward Cause, as well as toward material, and thus seeing all physical phenomena in a brighter light.

As we expand our concept of material spin and velocity to be caused by Living Space in fluid form which, as lines of force and as mass, twirls as it goes, we are from our expanded mental vantage point of observation, able to see the cause of another mystery that develops from looking with a physical attitude toward an unseen cause. The science of bombarding congealed energy (atom particles) with each other in a man-made electromagnetic "speed of light" condition, eventually leads to a seeming dead end. The particles lose their detectable quality, and there appears to be an antistate of matter facing the one being investigated. In this apparent antistate, each quality of the atom including spin, angular momentum and energy appear to be a direct contrast to those on this side of an invisible junction of forces. Two points of observation give two different appearances. For instance, the man behind the gun sees continuity, whereas the man inspecting the impact of the bullet on the target, sees an effect. A Consciousness with 360° vision, stationed near the target, sees activity coming and 180° to this, the activity imparted. That coming always appears to have reverse effects to what is seen on the target. If the atomic theory is expanded to include driving Electromagnetic Light (speed of light) coming to the atom, then external atomic activity is one and the same as internal atomic activity. A windmill seen from the windward side that appears to spin

counterclockwise, spins clockwise if seen from the lee side. When a preatomic state of energy is added directly to atomic theories, then antispin and angular momentum dissolve into continuity in the same manner as how we see the rifle bullet and its deposited effects at the target.

The more we investigate Life after this Life, the more soundly we establish the fact that we are two-density beings, that the I of us, which is an Other Density Being, operates the physical form during waking hours and in so doing, seemingly becomes the senses as it sees from that point of observation. Knowing this, we may deduct that a man, when contemplating a project is as Consciousness working independent of the body, and that same man, while materializing the project, is as Consciousness working in combination with the body that performs in this electrical density. Knowing this, our venture to Infinity is placed in a similar light, and we can dare to believe what we cannot believe if we see with physical senses only.

Every painting that speaks of Life in a special way is a treasure. So also is such a poem, song or a bit of philosophy. Those presentations that speak of Life in a meaningful manner are treasured because they speak of US in total as a two-density being.

Spiral sea shells and symmetrical fans are the handiwork of Nature. They have caused intrigue and wonderment in nearly all of us who have walked the ocean beaches or have inspected land mollusca (snail) shells far removed from the seas where they come in such great variety. Researchers have also been intrigued by their symmetry, especially by those spiral shells like the nautilus, spiral peronii and many other cephalopoda, which have not only spiral symmetry but also symmetry of their sections which progressively flare outward and also compress inward to either outer or inner infinity. (Fig. 4) The book *Practical Applications of Dynamic Symmetry,* published in 1932 by J. Hambridge, is a good reference for illustrations of dynamic symmetry of both sea shells and spirals.

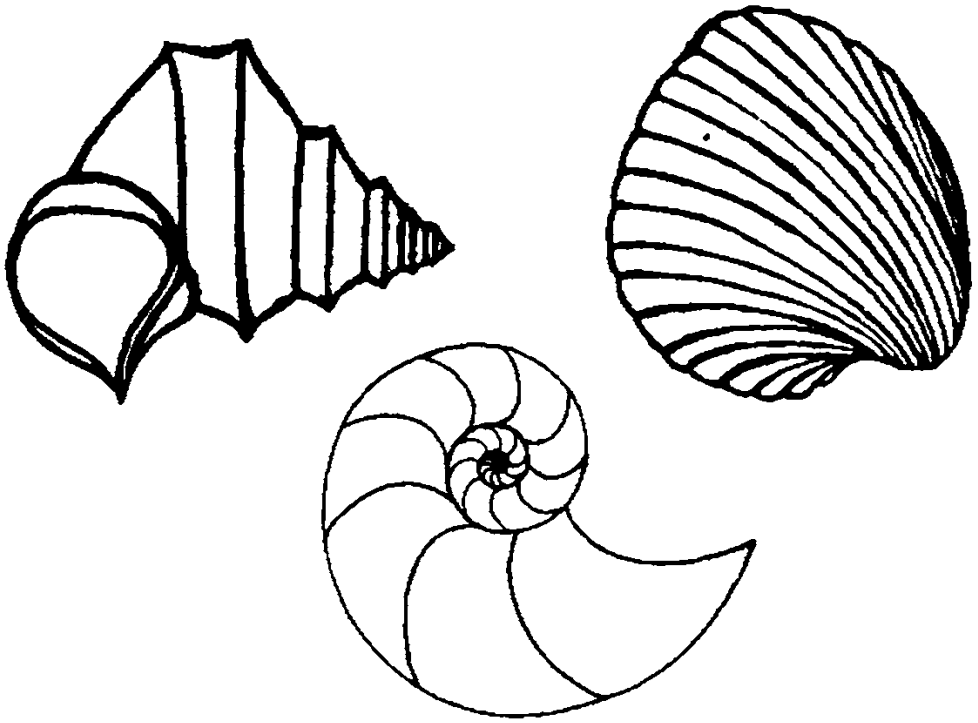


Fig. 4, SEA SHELL SPIRALS AND FAN

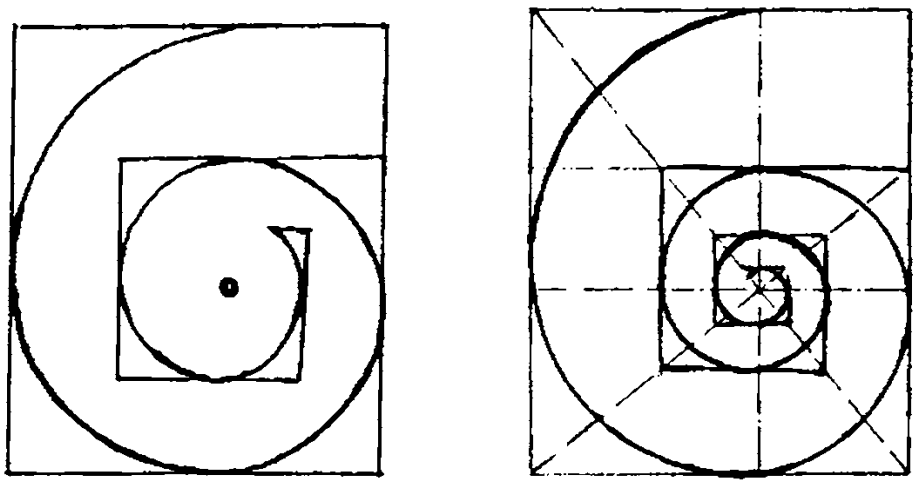


Fig. 5, LOGARITHMIC SPIRAL AND PROGRESSIVE UNBALANCED CUBE

Of all the spiral sea shells the logarithmic spiral is the most intriguing. It is symmetrical compression or symmetrical expansion. (Fig. 5) It has been detected in curvature on sunflower florets, some pine cones, etc. In these is displayed a 90° angle as well as a portion of a logarithmic spiral. This shape mathematically is logistic. It has inspired many thinkers to see it as a model of living symmetry.

Spirals as energy have been detected in submicroscopic atoms, in whirlwinds and hurricanes and in great variety by astronomers investigating Electromagnetic Space. Here again if we are to expand to see cause and to see Cosmic One Law in action, we need to investigate mentally that which is too massive and/or too distant to know physically. As we use local evidence for shape or style and know that, though some of what we investigate here is stationary as are sea shells, the more meaningful to environment are the spirals that are in motion.

It then stands to reason that we must indiscriminately expand our concepts of both shapes and motions of spirals to the ultimate. Looking into Space, the most pictured motion is

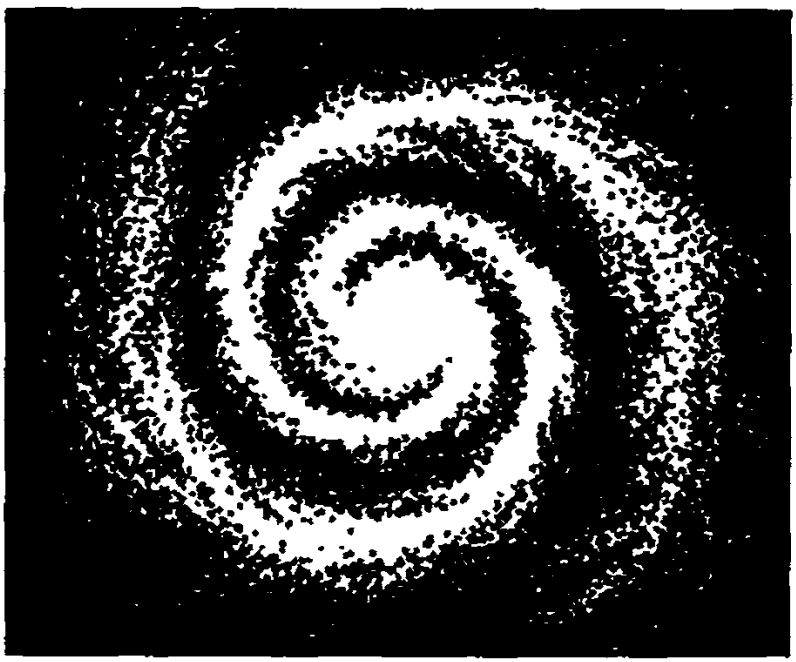


Fig. 6, SPIRAL GALAXY

that of a Galaxy (Fig. 6), one of many types of spirals. All of them though are in motion in still larger systems, as well as spiraling as a massive vortex with an apex. Many astronomers describe what to them appears to be a whirlpool in the apex of a galaxy. Galaxies fall within the spectrum of photography and eyesight. Many, more massive, are now being detected by electronic means. Surely then, smaller than Galaxy systems have similar undetected spirals.

Our home planet travels in its Sun orbit at the velocity of 29.77 kilometers or 18.5 miles per second. We on our planet in our local Star Cluster whorl, move in relation to a distant point, Lyra in Vega, at a velocity of 19.4 kilometers or 12.5 miles per second. This is very nearly a 2/3 ratio. If the reference spot, Lyra, were standing still in Space (not in motion also) the measurement may be exactly a 2/3 ratio which would be 12.33 to 18.5.

The 2/3 factor is not new in astronomy. In 1609, Johannes Kepler, with two-density thinking, originated several basic laws of Celestial mechanics. One law related to elliptical planet orbits and their perihelion and aphelion and their unbalanced velocity. His third law relates to the orbit of a planet and its distance to the Sun in astronomical units. A 2/3 factor enters into this formula. To simplify this finding, we state that planet Earth's orbit is about 584 million miles. Two-thirds of this is nearly 390 million miles, and 390 million miles is also the distance from Earth orbit to Jupiter orbit. The 2/3 factor and its harmonics appears to be Solar System harmony of distances and orbits. It is also estimated that the nearest star to us is 60,000 times as far as is Pluto. Curved Space could make this 66,000.

A big Solar System mystery is that of the planets containing nearly all of the angular momentum of our Solar System. It is readily admitted that in order for this to be, there must be an input of energy. If we see the logarithmic spiral as we see a whirlwind or whirlpool, we see the energy source and also the cause of greater density in planets closest to the Sun apex.

J.D. Titius and Johann E. Bode in the late 17th century, contributed a dynamic group of figures not unlike those of element chains of harmonics, but relating to the Solar System and the distances of orbits of planets. These numbers are: 4 7 10 16 28 52 100 338 772. These numbers divided by 10 give the distance in astronomical units of planets from the Sun. The asteroid belt was discovered by trying to find a planet to fit number 28. This sequence of numbers is still considered to be a curiosity and thought to have evolutionary significance. If though, we see them relating to an ingoing vortex, we see the Solar System in the same light that we, with telescopes and Celestial photography, see Spiral Galaxies. The force is inward from the outer.

If we see our Solar System to be an insweeping vortex, then the planet Pluto is at the outer sworl and the Sun is in the apex. This arrangement seems logical as Pluto's shifting orbit is at an angle to the orbits of other planets. The Sun in a compressed apex is the warm center with shifting internal and external fields. Planet Earth is known to display shifting geomagnetic poles, to have regional anamolies on its surface which are clockwise and counterclockwise currents and in Space, daily solar and lunar variations. When all of these are seen to be related to the same basic ingoing cause, then many mysteries dissolve including that of bent gravity and bent light.

Picture if you will, a seashell displaying a logarithmic spiral and filled with light-sensitive fibers such as are now being used experimentally to transmit pictures and sound. Would not at any point, the fibers present a picture as though it were happening in front of the viewer rather than around the bend, even at the opposite end of the sworl? Space is full of spirals, and the currents in these, like light-sensitive fibers, bend light because they are the product of Light.

When we consider Life after our Life here, and accept Other Density Life as being a continuity of our experience here, we understand the personal interchange between Electromagnetic Density and the Other Density. But to what scientific research and discovery can we look to visualize

Massive Cosmic interchange between these two densities of Life? It must be to the Pulsars and Black Holes that are in the forefront of astronomy topics and research. Some astronomers who currently monitor Space with ever more refined equipment are reporting that there is strong evidence that somewhere in the mighty Universe is an exceedingly massive "Black Hole." From previous reports we know that black holes are associated with pulsars, and both are considered to be a part of the same system.

Let us now come back to Earth and evaluate a similar vital factor here in conjunction with our personal mini-universe (our body). The blood stream pulses outward and our venous blood flows inward. The pulsing arterial blood, loaded with atmosphere energy goes out to the capillaries all over the body and after depositing its charge, returns via polarized veins as dark blood to the "dark hole" or dark side of our heart. The heart and vascular systems of mammals are a completely divided system. (Fig. 7) The only place where the two sides meet is in the lungs and capillaries, and in these points of transfer, the blood changes by interchange from one type to the other.

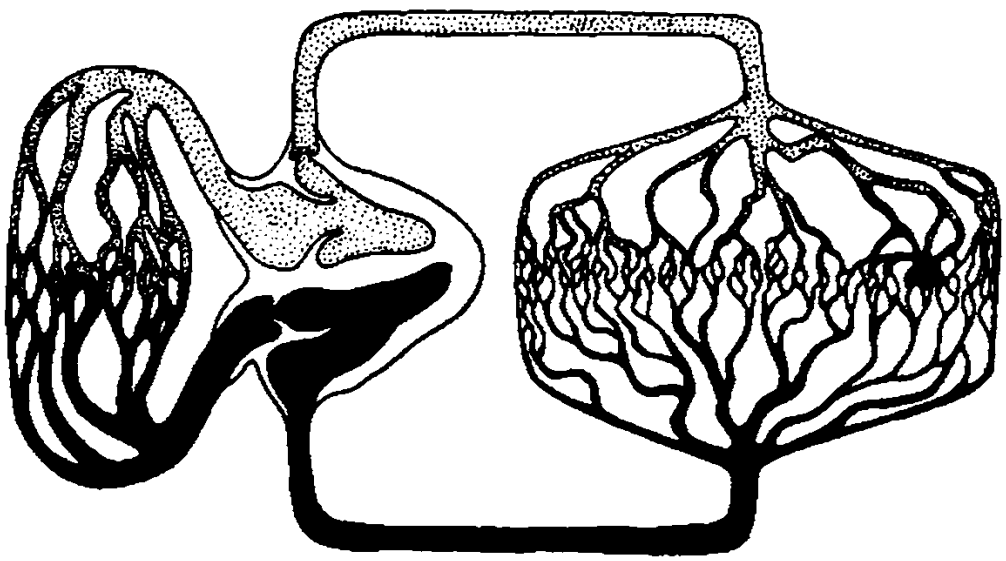


Fig. 7 VASCULAR SYSTEM OF MAMMALS

When a violent beginning such as a massive "big bang" theory is eliminated in favor of a gentle beginning and interchange, the physical science of Earth stands on the threshold of massive breakthroughs both in physical and social sciences. It is the selfish nature of the physical ego of Earth experience that likes an impersonal science theory. It needs to be remembered that the physical ego does not survive the death of the physical body, only the experience does. Thus it creates a great mental block to a physical science as a body, causing them to defend this short experience as Total Life.

The Electromagnetic Density comes into existence from the Other Density even as our I comes here for this experience. From the depths of Great Density is instigated a vibratory pulse of high frequency. The substance that is pulsed is Gender polarity from a concentration of flux at Gender poles. The positive, outgoing pulse is male in Gender and is that force known to us as Electromagnetic Light. Its velocity is the known 186,000 miles per second. The massive column of Light has right-hand spin and, as it is what we know as magnetism, it forms into minute lines of force. This column spreads outward as a logarithmic spiral and eventually flares out to level off and to gradually start a return flow. In the process of turning, this positive Light deposits its charge and changes in color to become Dark Light and gravity. The velocity increases by a factor of 1/12th, and as it is void of positive charge, it is influenced to return to the Dark Hole center where it goes through a process of rejuvenation in the female receptive pole of the Other Density.

A logarithmic spiral of unbelievably massive size turning to the right creates upon turning inward, a more or less 90° pattern. If we grasp a flexible rod by the ends and turn the right-hand end to the right, the end in our left hand turns to the left. So also is it with Electromagnetic Light. The 90° angle created by Primary Light in crisscross of lines of force, is present as a secondary effect in many states of electricity and electronics. The combined flows are the beginning for all

Electromagnetic vortices, great and small, and as they all issue from the same source, they always carry some resemblance to the Master Plan of action and drive.

Though Electromagnetic Light is Dynamic Symmetry, in function it is ever changing contrast in the form of Living Light. Our own fantastic body is a microscopic copy of this function. It has a solid but flexible framework and a variety of organs, glands and re-active tissue. During its life span its vascular system continually goes outward to every crossroad where arteries and veins meet, then that which was outgoing becomes ingoing force, and as it is attracted to its polarity base, it flows inward by gravity. If we could possibly visualize the Electromagnetic Density as Living Light in total, we would see endless streams of charged force pulsing outward and then in everlasting curves, turning to fold inward upon itself with a familiar contrast at each and every crossing. While this is going on, the other end beyond the "dark hole" is also folding inward to again go outward. If we could inspect the fine details, we would see that all Electromagnetic Space is composed of microscopic balanced cubes. This is because there are two basic influences upon this minute structure. It is square because it relates to electromagnetic 90° angle, but as it relates to the Other Density for stability, it is a cube.

This orderliness though needs to be unbalanced to create secondary manifestations; thus protons and Suns are unbalanced, positive creations of cubic structure (Fig. 5); and electrons, planets and spherical structure are unbalanced negative creations. This built-in contrast is orderly as it flows according to plan, even as does our body. Each is a two-density function and behind each is Wisdom.

A Solar System is a base for secondary Life and secondary experience. It is first of all a great vortex that sweeps inward with ever increasing density. The entire Sun vortex rotates, and as the mother vortex of a Solar system, it has the power to carry other vortices (planets) within it and, according to their density and position, they are carried around and about

the Sun. A Solar System vortex has dual re-acting currents. There is a built-in internal outgoing spiral which aligns the poles of planets and their angle to the Sun.

A Solar System vortex as a re-action carries all qualities of Light. The magnetic factor is the driving force that instills that force within the Sun. The negative factor creates the gravity vortex of planets and their cool light. Planets, however, have their warm factor also. The cupped Van Allen belts represent Sun Balance force and are a variation of the ring that is visible around Saturn. Each planet in their orbit and density of an indriving vortex have individual characteristics. Planet Earth and its vast oceans of water and congealed elements, could not be as it is, if it were in another orbit and density of the Solar System vortex.

Vortices are born and then spin from and within the contrasting lines of gender-oriented, driving forces which are the Right and Left Hand of Creative Spirit doing creative work.

Chapter 12

The Roots of Gender

There was a time when Earth was not, and there was a time when those who inhabit Earth were not here. Last week many cells that are now in our body were not there. The atoms which lie between cells and Electromagnetic Light must then be even more interchangeable than biological cells. Nowhere, not even to the most massive Celestial Systems, can we look for permanence, as they too are born into being, and there comes a time when they dissolve and, like the atoms and cells, are replaced. Nothing electromagnetic comes from material; everything is born of Electromagnetic Light, which is born in an interchange between two densities. Electromagnetic Light is born of Gender Polarity and Gender Polarity Flux within and from Gender Poles of Primary Light in the Other Density.

Electromagnetic atom charges are stable only because non-charged, strong forces keep them so. For the same reason, molecules, cells and on a larger scale biological bodies are also stable. Our blood stream circulates Life Forces as it cruises through our physical body, and this body is held stable within a permanent body made of non-charged, strong forces. This combination coming together was the birth of the total body for this experience. When the two divide at

death, each body returns to its respective Density and Life goes on. Electromagnetic Light is stable because it flows through permanence on a Cosmic scale while gently circulating Life Forces and Electromagnetic Density. It cruises within the Other Density as a separate entity, and because it is Gender-oriented, all electrically charged things are born of it, and it is ever ready to perform in a contrasting manner to give birth to electrically charged material. It is also ever ready to supply Gender drive to biological bodies which are balanced to be, in sex, either male or female and thus capable of reproducing at the biological level.

Gender is a quality of the Other Density where it is closely coupled into Oneness rather than loosely coupled as here in the electrical density. There is no time or Life span in the Other Density because it does not have divided Gender or loosely coupled electrical charge that loses its charge by interchange. Life, Sense of Being and Timelessness in the body of Primary Light are basic qualities of the Other Density. The quality of Life is impregnated into the electrical density through Timeless Interchange of Gender Polarity which makes Electromagnetic Space a Living Crystal Matrix. Forms created from Crystaline Space have Life spans comparable to their functions, only their Cause and Purpose is Timeless. Living Crystaline Space has the same qualities of Life as does the interchange from the Other Density. The Oneness of Gender in a chain of events in Secondary Creation becomes first of all male and female Electromagnetic Light. This Light, electrically speaking, is of positive and negative charge. In another state, it is also magnetism and gravity. In polarized crystals, light is paramagnetic and diamagnetic, also acid and alkaline. Biologically speaking, it is steroids and peptides, male and female balance hormones, positive and negative enzymes and even the two contrasting sides of the DNA helical spiral.

Outgoing Electrical Light is male in gender, projective in nature and positive in charge. It is White Light and the father of warm electromagnetism. Because it pushes outward into pressure, it is pressurized throughout its density and is in

particle form true spheres, which as congealed crystals are either true spheres or true cubes. Its velocity into pressure is approximately 186,264 miles per second, and because of its cubic structure it flows in paramagnetic metals which are good conductors of electricity and have a keen affinity for cubic structures. Ferromagnetic materials which are basically cubic, when stressed become a source of secondary magnetism which then, materially speaking, are magnets or distorted space.

Ingoing, transverse Light is female in Gender, receptive in nature and negative in charge. It is Dark Light and the mother of cool gravity and cool germination. Dark Light in all cases is a direct contrast to White Light. Where White Light penetrates, Dark Light absorbs. This penetration and absorption is towards each other, as in their state they are the only active, compatible, electromagnetic entities. Because of their contrasting activity, all else electromagnetic is formed and continually driven. Because White Light and Dark Light are of equal potential contrasts and because they are basically Gender Polarity, they need to be in structure capable of creating reactions upon or within each other. In the form of electrical light these reactions must be reflective in nature. Since White Light is projective and basically balanced cubes while Dark Light is receptive and basically elliptical, together they are projective and receptive respectively which is accomplished by the nature of their reflections. (Fig. 8)

We know that cubic, ferromagnetic metals when stressed (magnetostriction) become magnets which project an electrical field outward. By the same law, positive Light in true sphere (cubic) form, reflects outward. A true sphere or cube has a limited number of possible reflections and as in laser light, reflections amplify and emit outward. Because positive light basically pulses outward into pressure, it forms into true spheres. Thus its nature by reflection is projective and this projectivity is directed toward its contrast, Negative Dark Light.

Negative Female gender Light being transverse Light is drawn toward the apex of its transverse spiral which is gravity. While also being receptive, it is attracted to the contrasting force it is leaving, and is thus pulled in two directions

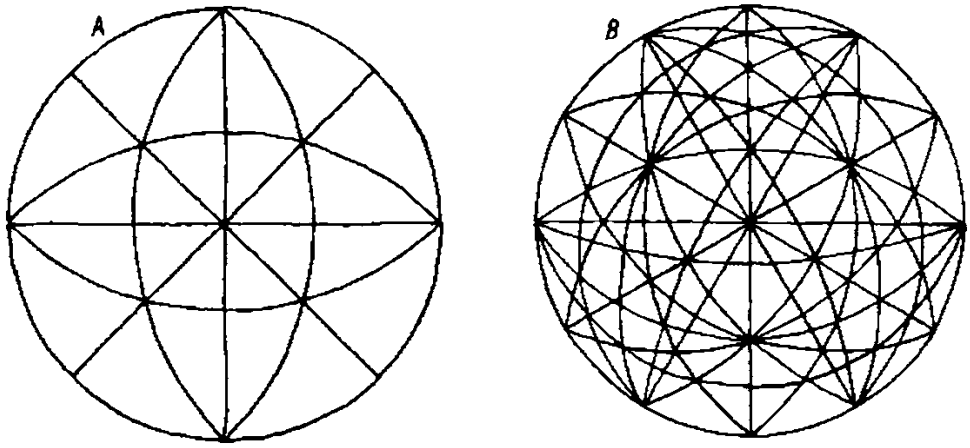


Fig. 8, STEREOGRAPHIC PROJECTIONS OF REFLECTIONS

A. This is a stereographic projection of a cubic crystal with limited internal reflections. suns and protons are unbalanced positive creations of cubical structure. A logarithmic spiral (Chapter 11, Fig. 5) is a progressive unbalanced cube. Throughout Space and material positive male gender force leaves cubical or true sphere tracks.

B. This is a stereographic projection of a holosymmetric rhombohedral crystal with many internal reflections. Planets, electrons and elliptical structures are unbalanced negative creations which are female in gender. Throughout Space and material, female gender light leaves elliptical, rhombodial internal reflecting tracks. A gravity vortex is an unbalanced negative spiral.

at the same time. This gentle pull on its basic particle structure creates elliptical particles rather than true spheres. This is the basic reason that Suns are true cubes while planets that we know are elliptical and travel in an elliptical path around the Sun. The nature of female gender (transverse) cool dark light, is elliptical.

Symmetry to negative Light is unsymmetry to positive Light. Negative Light finds compatible symmetry in things elliptical. It runs or flows freely in diamagnetic materials and unsymmetrical shapes, which have internal reflections rather than outgoing reflections common to positive magnetism. An elliptical shape, and especially an ellipse such as an egg which has one end smaller than the other, contains the possibility of continuous internal reflections. An egg is a potential womb because it is self-contained energy of mother Gender. The basic research of quantum mechanics started from the observation that a "dark body" absorbs light. All parallel subsequent happenings are possible only because such is the nature of female Gender Light. It absorbs and nurtures certain measures of White Light.

Negative gender Light is 1/12th fleeter than positive light which goes into pressure. This 1/12th of 186,264 is 15,522 which added to 186,264 gives Dark Negative Light the velocity of 201,786 miles per second and in round figures we have 186,000 and 202,000 miles per second respectively for outgoing and transverse (returning) Light. Because each light is equal to its contrasting mate, and as the Dark Light has more velocity drive, the Dark Light must be of lesser density. In Space an example of density balance is the ordinary hydrogen atom which is a direct descendant of contrasting light. Ordinary hydrogen atoms do not contain a neutron but have equal positive and negative charge. In congealed material a similar density balance can be seen in cubic and rhombohedral, for instance that of iron and calcium. The atomic weight of iron is 55.847 while that of calcium is 40.08. This material balance parallels the density balance of White Light to Dark Light in the form of contrasting streams of charged particles forever crossing each other in layers throughout Electromagnetic Space. This in itself could not form "space dust" and other necessary elements of Space which then form Celestial Systems. Electrical Space must be a crystaline matrix in fluid energy form if it is to supply materialization. Space matrix must be born, first in an atomic state and following that in a more materialistic state.

Gender forces have natural undeniable physical attraction. They however need a systematic changing attraction which in turn creates resonance which then produced secondary results. Besides Gender attraction there is another type of attraction parallel to it. This is attention. By giving Electromagnetic Density personal quality such as Gender, we also open the door to consider other personal qualities that to us are natural, but which seem so personal that we cannot readily see how we inherited them from our total environment rather than our family environment. If we mentally give to conceived Space, qualities familiar to self, we can readily see attraction and attention in Living Space paralleling these qualities in us. If we do so, we have extended local friendliness of Nature to a much more meaningful level and thus opened the door to personally see much broader horizons for our personal endeavors.

Each force moving with velocity that is rapid to us but a gentle flow in the Vast Cosmos because of vast distances, has its natural attention upon its contrasting mate. Positive Light is the pursuer and seeks to penetrate negative Light. The negative Light is fleeter than the pursuer and as her attention is upon the pursuer to fulfill attraction, negative Light in a sense is always backing up towards its destination, looking back rather than forward. This backing up phenomenon is detectable right here on Earth, where in a secondary manner the Sun is the projector of light and Earth the receptor of Light. Many flowers follow the Sun from the depths of a gravity Earth vortex that backed up out of the Sun vortex. Seeds that germinate in the dark, reach out for light. When plants are grown out of negative Earth polarity below the surface of ground into positive atmosphere polarity above the surface, they seek light as persistently as negative light seeks positive light in Space. Plants and trees, in order to produce fruits common to each, fertilize in Sunlight and atmosphere. The fruit of the tree grows between where the blossom appeared, and the tree which is attached to Earth polarity. The Sun and Earth meet to produce results. So also in a more

fluid state, positive and negative Space meet to produce material results. This undeniable attraction is made rhythmic and zestful attraction by what is breathing and which in deep space is rhythmic breathing of the lines of contrasting force.

When we as a body are formed, pulsation is the first sign of independent life. When we emerge from the womb, we, by rhythmic breathing, adopt our Cosmic Host. Both pulse and rhythmic breathing are Other Density influence and thus density reaction. When we fall asleep, our body, void of Conscious drive, rests in systematic Electromagnetic Living Space, and our breathing which was erratic during the day, becomes regular and rhythmic when we fall asleep. We couple into a common rhythm of Electromagnetic Space when resting and rejuvenating. Auroras at the poles of Earth are also seen to breathe. The dissipated lines of force that lost some of their velocity while passing through Earth, join "speeds of light" that were not disrupted, and the friction thus created makes Aurora Lights. This then is Space Breathing made visible as light.

Breathing lines of force slide forth and back across each other with one pushing while the other is pulling, and one going backward while the other moves forward. This not only causes Living resonance to the Electromagnetic Density, but also forms these lines of force into bands. An example of this drive can be seen in "Brownian movement" which oddity is the perpetual dance of minute particles suspended in fluid. First the particles form into bands or layers. When these are investigated with the aid of a microscope, individual particles, at random suddenly dart about in a perpetual dance. Without a Space velocity reference as cause of the dance, such is a perpetual mystery.

At each shifting crossroad of lines of force which form a more or less 90° angle, further electronic resonance takes place. We know from electronics experience that two conductors carrying high voltage current, can under certain close proximity and angle, cause a resonance called ringing at that crossing. This ringing shows up on an oscilloscope as a spiral

with its apex away from the crossing. Microscopic lines of force which are naturally attracted to each other and which as male and female are productive, cause living resonance at each crossing. If this could be seen with electronic vision, such resonance throughout space would be dancing, scintillating, crystaline Light. The closest that physical vision can come to seeing this is to inspect snowflakes that form within dancing, scintillating, atmosphere Space. A specific snow crystal will form in a certain spot of atmosphere space, and a moment later, an entirely different crystal will form in that same spot. Frost on the window pane and on damp ground are also crystal formations responding to a quality of Space that is a driving crystal matrix of untold variety.

Resonance in a secondary form can be heard in some insect flights. The chest cavity of resonating flight insects is a cavity resonator to which wings are hinged that, when unfolded, become extensions of the cavity. Insect power is in part derived directly from Space by being in harmony with it at a certain harmonic frequency. The cavity is a tuned cavity into Space that is untold resonance as is shown by the snowflakes.

The roots of the Electromagnetic Density are soundly based in the perpetual Other Density. The laws that we seek to establish here for orderliness are made to conform to an inner knowing and instinct in us. This is evidence that our roots are based in the Other Density. We do have physical markings that can be interpreted to mean this. We resemble our physical parents in appearance and characteristics, but aside from this we have individualized markings. These are finger and toe prints. If we inspect our fingerprint lines with a low powered microscope, we find that these lines have swirls, loops, islands and curves. If we inspect them with a stonger microscope, we find that our lines' lines have lines. Here again deeper research would lead to Infinity. This Life is in the Electromagnetic Density of Life and is a secondary Life with roots in Infinity. Our Consciousness knows both densities, but its attention now is on this experience. Our roots are directly and indirectly in the Other Density.

Chapter 13

Celestial Harmonics

Resonating, scintillating, oscillating Space plays a tune that is filled with harmonics. Many natural Cosmic harmonies have been discovered and copied by developing sciences on Earth. For example, in a man-made electronic oscillator every basic oscillation has harmonics at multiples of its basic, i.e., an oscillation of 1 kilocycle, which is 1,000 cycles per second (cps), is detectable with a slightly reduced volume at 2 kilocycles, 3 kilocycles, etc. In the electronic devices that put signals into Space, it is necessary to squelch and/or control some harmonics that develop in order to prevent their interference with the reception of other devices using the same space. These harmonics, however, can be amplified and controlled at any chosen multiple. A 1 megacycle basic harmonic can be amplified at its 4th harmonic, and again at say the 12th harmonic, and any harmonic between these can be ignored or squelched to avoid interference. This flexibility of electromagnetic harmonics is man's discovery, but it is Cosmic Law and has always been used in Celestial Harmony.

The laws of electronics and chemistry are parallel at different levels or states of electromagnetic activity. Elements beyond gaseous state are Electromagnetic Light, even as are the electrically charged atoms. The laws of harmonics apply

to elements in a pre-atomic state, and at the atom level, are known as "periodic law" of elements. Any basic quality of gas will show up as a harmonic in a more solid state.

Each harmonic chain starts in a gaseous or light element state and ends in a very dense state of congealment where it is known as a specific element with certain qualities common to its basic. There is a readily available reference in the 15th edition of *Encyclopaedia Britannica* under the listing of Periodic Laws, also under Periodic Tables of Elements such as Nitrogen Group of Elements, Oxygen Group of Elements and others. Periodic laws as now written are a study of atomic numbers, atomic weight, atomic characteristics and also secondary harmonics called ions. This study at local surroundings only, though fascinating, leaves much to be desired as it is a description of an effect rather than a known cause. The term "periodic" relates to a sequence in which atomic numbers and weights of differing, but harmonic elements reappear systematically in steps, even as does the DNA spiral within the nucleus of the cell. Each type of energy relates to contrasting harmonics while also relating to self harmonics. For instance, the main elements in our atmosphere which are vital to Life are oxygen and nitrogen. They supply contrasts to our body. Oxygen is a more congealed harmonic of hydrogen and both are flammable, while nitrogen, is a more congealed harmonic of helium and both are "noble gases" which retard flammability. Basic contrasts are transferred by the arteries to our capillary system and following this transfer the venous system returns the dark blood to the dark side of the heart then to the lungs in a cleansing project of interchange.

The Oxygen group of periodically appearing harmonious elements from a gaseous state to a very dense state are: # 1 hydrogen, #8 oxygen, #16 sulpher, #34 selinium, #52 tellurium and #84 polonium. The side-by-side contrast to these is the nitrogen group: #2 helium, #7 nitrogen, #15 phosphorous, #33 arsenic, #51 antimony, and #83 bismuth. The oxygen group starts with a flammable gas and ends with radiating

polonium. The nitrogen group starts with a noble, non-flammable gas and ends in bismuth which is the strongest diamagnetic known and which contrasts radiation quality of polonium by being electrically an absorber. The oxygen periodic chain and the nitrogen periodic chain are parallel thus:

flammable, oxygen group of elements	1	8	16	34	52	84
non-flammable, nitrogen group of elements	2	7	15	33	51	83

You will note that the numbers in these two chains are adjacent, and that either group if drawn into a spiral with gas at the top and dense solids at the bottom, will by number sequence, describe a dynamic, whirlwind-like spiral. This spiral is rarified at the gas level and compacted at the stem of the spiral. This is a chemical "black hole" related to gravity, parallel to black holes being detected and postulated in Space, which black holes relate to Celestial Systems. The sequence of numbers drawn into a spiral would be like that of a whirlwind, or like an ice cream cone with a flared top.

Another series of harmonics includes calcium and potassium in contrast. It is well known that calcium and potassium among other alkali, are elements that in electrical charge teeter-totter across a cell membrane and by their polarity cause compression and relaxing as well as stand-by power to cells. The alkali metal group of elements contains the element potassium, #19 on the atomic table of elements, while the alkali-earth (rare earths) group contain calcium, #20 on the atomic table of elements. The two groups start with a light element and end with great density. The alkaline, earth metals, many of which deposits are the skeletal remains of single cell diatoms are: #4 beryllium, #12 magnesium, #20 calcium, #38 strontium, #56 barium, and #88 radium. The alkali-metal group is: #3 lithium, #11 sodium, #19 potassium, #37 rubidium, #55 cesium and #87 francium. The chains of these two groups are parallel, even as the chains of oxygen and nitrogen:

Alkali-earth metal group of elements	4	12	20	38	56	88
Alkali metal group of elements	3	11	19	37	55	87

The compatibility of tension and relaxation that exists between potassium and calcium is present at any level of this string of similar elements and found throughout all of the periodic tables. This division is easiest seen in hard, lustrous metals that are good conductors of electricity and the alkali metals which are poor conductors of electricity, but good storers of it. When one sees the elements from the aspect of an Electromagnetic Light of two contrasts, one sees continuity which at one end is deep in the unseen of Space and at the other end deep in the unseen atoms that in compounds serve us in this experience of Life.

The sequence of harmonics at which the alkali metals appear in the element chain, and the way they border each other in parallel, describes not only parallel contrasts, but also escalating density common to a whirlwind-type spiral in which the rarified is at the top and the greatest concentration at the bottom. Alkali metals are gradually becoming of greater industrial importance; however, if we are to solve biological power (cool electricity) we need to see the contrasts of elements to be parallel to the forces of magnetism and gravity which manifest warm and cool results.

Electronic ignition systems produce a cooler spark than electricity and its inductance coils and condensers. Spark plugs do not burn as readily when connected to a solid state electronic ignition system. Shocking organs of an electric eel, which are composed of a balance of hydrogen, oxygen, carbon, chlorine, potassium, sodium and calcium, produce cool electricity at the biological level which is a higher life style than the solid state. Elements systematically organized in mass, when properly stressed and pulsed, reproduce their cause which is electricity in motion. Elements compress in a planet's ingoing gravity vortex and Galaxies form in a more massive state of compression.

When all energy flow, both great and small, is seen to be within the banks of White and Dark Electromagnetic Light which are equal and opposite contrasts with personalized characteristics and functions, then the element chain can be seen to be a harmonious teeter-totter both in formation and in function. Ordinary hydrogen atoms (which do not have a neutron) divide into two contrasts called "para" and "ortho." The more acidic, para side at its extreme borders the noble gases of the helium chain, and the ortho side at its extreme borders alkaline earth-metals as alkaline metals. Hydrogen and helium, the most abundant elements of Space, are representatives of Electromagnetic Light at any level of elements. For example, the contrasts available in potassium and calcium compress and relax to the command of desire and help create physical motion which by chain reactions is driven by rapid motion of Living Light.

There are volumes of data written about internal interchange of two forces at the atomic and molecular level of energy. As there are only about a hundred different atoms and tens of thousands of molecules which build into far greater numbers of physical forms, then by the example of a letter alphabet contributing the substance for uncountable words, it is apparent that the cause of all substance and form arises from two basic contrasts with specific and compatible characteristics.

The term "periodic," used to describe elements, also relates to periods of change noted in diatoms and radiolarians which are siliceous skeletal remains of single-cell organisms that in steps evolved with Earth changes. These skeletons make up huge deposits in ocean floors and are the diatomacious earths and rare earths that are known as the earth-metals element group of elements. This evolution, if seen as an effect of Earth's vortex compressing to ever greater density and maturity, will make it more meaningful in terms of both cause and effect.

Past history of Earth's elements and biology reveals evidence of constant, gradual change in elements, biology and life styles. This evidence is not confined to Earth only. Astronomers,

evaluating long-term changes in electromagnetic Space, find evidence of slow, but constant, change in clusters of Galaxies. They also note orderliness common to our orderliness but on a scale of nearly unbelievable massiveness.

Science News, November 20, 1977, was a special astronomy issue. In it is an article by Dietrick E. Thomsen, telling of differences in Galaxies that form within Clusters of Galaxies. A Galaxy Cluster is a Super Galaxy consisting of many Galaxies with a common center. The fact presented was that Galaxies differ according to whether they are in the middle or within the edge of a Galaxy Cluster. The questions presented were, "How and when is it determined what shape the Galaxy shall be, elliptical, spiral or an irregular disk?" and "At what point is it decided which type of a Galaxy is formed to fit a specific spot in the Galaxy Cluster?" The conclusion arrived at is that Galaxies appear to know in advance where they belong, and that the design also is conceivably known in advance. Do or do not Galaxies know individually? In any event, they do seem to know.

If we add another observation that appeared in *Science News,* March 11, 1978, titled "Jupiter's Electrons 'Channeled' to Earth," we can readily see that concerning a Cluster of Galaxies there is local evidence that points to an ingoing vortex and energy flow. We quote in part:

> It was discovered from space probes in the mid 60's that among the Cosmic rays, solar wind particles and other motes reaching the earth from space, were streams of electrons whose numbers showed on and off, 13-month periodicity. It took Pioneer 10, late in 1973 to show that the electrons were in fact coming from Jupiter, whose roughly 12-year orbital period means that it gains about a month per year (in terms of solar longitude) on the earth, thus adding up to the 13-month cycle. the Pioneer data also showed the number of electrons reaching earth would drop by as much as 90% for several days at a time.

The balance of the article attempts to theorize how the Sun's solar wind spiraling outward from the Sun, could create return currents in "compressed interaction regions" to the extent that an on and off path from Jupiter to Earth could exist.

Jupiter and Earth belong in the same system. There are, however, differences which speak of an external cause that parallels the formation of elements that are swept inward toward ever greater congealment. Explorer probes solidify the suspected fact that outer planets of our Solar System are less dense than those closer to the Sun. This parallels the element chains which are rarified at the outer and dense at the apex. Explorer satellites when enroute to distant points in our Solar System, need course corrections as they go. Does this mean that the line of sight from Earth to a distant planet curves although it does not appear to curve? Our latest science of transmitting radio and TV signals is that of using light-sensitive filament to carry a light signal. These fibers can be side by side and each can carry a separate signal. The signals can go around bends and the signal at the end is not affected by the bent path. A space vortex is a complex curved path for electromagnetic currents which, though massive, are not unlike light-sensitive fibrils and biological body nerves. Thus vortices far and near escape our physical detection even though we may be submerged in them.

At this writing some astronomers are drawing theorized "black holes" in Space to be a flared out cone. (Fig. 9) These black holes are considered to be strong gravity centers and associated with normal Celestial Systems. The formation of black holes is theorized to be as violent as the "big bang" theory of beginning. In fact, the two theories are considered to be contingent happenings. Armed with a non-violent theory, we take this same illustration and alter it to have insweeping lines parallel to those of a whirlwind (Fig. 10), we then have in theory a non-violent gravity "black hole," a living function rather than a self-made catastrophe.

Earth being negative to the Sun and gravity-oriented, is a black hole center or apex. Around this apex are strong energy belts called Van Allen Belts. The Van Allen Belts that cradle

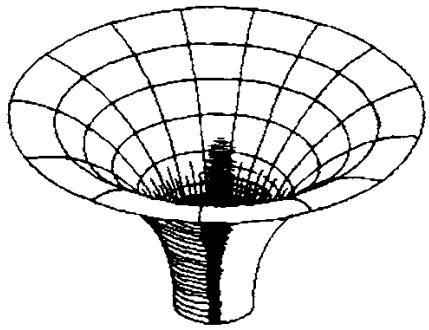


Fig. 9, ICE CREAM CONE SHAPE

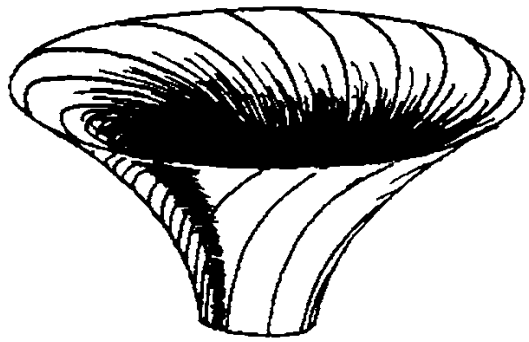


Fig. 10, SHAPE AS A VORTEX

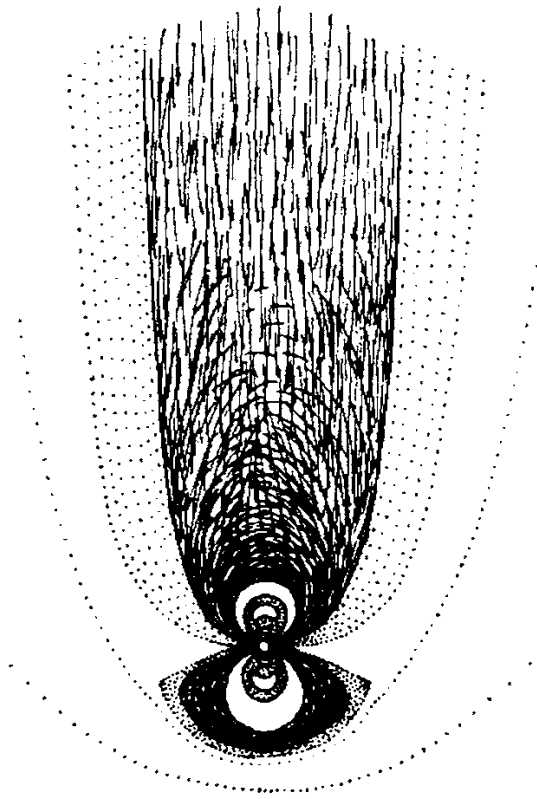


Fig. 11, MODIFIED VAN ALLEN BELT

Mother Earth as with cupped hands having openings toward the poles, have an outer more rarified field of 3 densities. The detected inner layer is called the neutral sheet, the middle layer is named the magnetosphere and the outer layer is called the transition zone. There is a good account and illustrations of what has been discovered and theorized in the 15th edition of *Encyclopaedia Britannica,* under the heading Van Allen Belts. Fig. 11 is a modification of these illustrations. Earth's Van Allen Belts and their outer fields extend only a short distance toward the Sun, but stretch far out into Space away from the Sun. This outer is referred to as the Sun's shadow consisting of trapped charged particles of the Sun, and is theorized to be an effect of Solar Wind going outward. Jupiter's outer field was discovered by an explorer satellite not to be directly away from the Sun, but at an angle. This research is not complete, but the evidence gathered indicated that the outer fields of planets all appear to be at varying angles to the Sun reference. They thus cannot be Sun force "Solar Wind" shadows and cannot be the effect of Sun's spiraling currents outward as these currents align poles which lie at another angle. Therefore the light from the Sun cannot be the direct cause of fields on the opposite side of planets, and we are in a position to adopt a theory that these fields are ingoing vortices within a primary solar system whorl and its swirling currents. Man-made phenomena such as radio, nuclear explosions and chemistry reactions start from a strong nucleus or centralized point of activity and go outward from there. Natural phenomena coming from the unseen and gathering to be seen is a reverse order of man-made phenomena. The end result is the nucleus. When we see the chain of elements that start with gas and end up in great complex density (many of them radioactive density), we see a parallel of planets like Earth as the apex or high density nucleus of an ingoing vortex. The dense Van Allen Belts that cup the planet are then concentrated ingoing Sun-oriented energy, rather than trapped particles from the Sun.

The energized Celestial harmonics that create Suns are of positive balance and the harmonics that create planets are of negative balance. Each depends on the other for contrast to create secondary activity.

Outer space is cold because it does not have a reactive atmosphere. Atmosphere at high altitudes is cold because there is no mass like the surface of Earth to which it can react. Atmosphere consists of microscopic, electrically charged particles which have charged poles. These particles are longest in their polarized direction and resemble very short, charged needles microscopic in size. Like flowers that follow the Sun, these atmospheric needles point their negative poles toward the Sun. Their positive poles in unison, point towards Earth. These poised poles, in the path of fast-moving Electromagnetic Light are accumulators of light energy, and as they point to Earth, the surface of Earth receives their positive charge. Our bodies when in direct sunlight may get what we call sunburn as a result of the deposited positive charge from the tiny atmospheric "needles" that are in contact with the skin. We do not sunburn when in the shade. Sunlight also activates solar cells in the same manner that it activates atmosphere.

When sunlight is obstructed by drops of water beneath a cloud, we see a rainbow. Like a crystal held in sunlight, the rainbow registers bent light (the "needles" do not bend—they swing on their axis). As each bend is at a different angle to us, the observer, we see a color spectrum. The lesser angle of bend represents higher frequency and is violet in color. At the opposite side we see red which is a lower frequency and a greater angle. During the day, especially in bright sunlight, atmosphere is orderly and light. During a dark night the atmosphere is discordant and thus blocks our vision, and it is dark. (Some animals have eyes that polarize discordant atmosphere. We say that they have "night vision.") The moon and stars polarize discordant atmosphere weakly, and we see weak lights at night.

Celestial harmonics are active at every level of the Electromagnetic Density.

Chapter 14

Secondary Polarities

After this civilization's first atom was forcefully split and the first atom bomb was exploded, our sciences predicted that soon we would have an abundance of energy available to replace our diminishing stock of fuel. The failure to achieve this was not because of lack of enthusiasm and drive, but because of a lack of understanding of the laws of Infinity which were in operation long before Earth was, and which cannot be broken without penalty. Throughout the Cosmos the Other Density protects Life of the Electromagnetic Density with strong force stability, and from Infinity outward, including all Life, Infinity's first law for Nature is *Survival.*

As the first law of Nature is that of Survival, the subservient electrical forces of Nature are guarded by Other Density stability, and they cannot be made ineffective by any electrical force. The violent release of heat with the explosion of the atom is a two-density happening. When the stability of the atom is purposely destroyed, the strong Other Density forces rush inward with great pressure at the same time that the electrons and protons discharge in a manner contrary to Natural Law. In this atomic explosion the Law of Survival has been broken and the penalty is apparent. The strongest of all poison to Life on a planet is released to contaminate for thousands of years.

indication that we, as mature adults, are coupled into Cosmic Light, male and female in Gender; and that we are, via this coupling, able to represent the Gender of Cosmic Light and thus know the experience of being secondary creators of Life in form. If we draw an imaginary line between these outcroppings of hair, first from the head to crotch, and then from armpit to armpit, we have our personal 90° cross and the junction of this cross is the area that contains our head, heart, lungs and other most vital organs.

The male body is balanced on the positive side of electrical forces, while the female is balanced on the negative side. Visual evidence of this is that the male's muscular system is slightly quicker biologically and this gives it also more physical power for everyday chores. This quickness is due to the fact that dense Electromagnetic Light which predominates as material balance of the body supplies to the male balance a greater measure of positive force than negative force and thus quicker motion of the body. The female body which in balance taps more of the negative Light with less density and more velocity does not react as quickly as the male body, but the movements are more lithe and lissome and the body is pleasingly rounded. Modern day exhibitions of dance, ice skating, etc., take advantage of this and the stronger male, generally well dressed, helps to display the gracefulness of the female who is appropriately clothed.

A strongly flexible secondary polarity of male and female is the physical shape of the torso which divides at the solar plexus nerve center. When we see an average male and female, both dressed in form-fitting clothing, we quickly note this secondary polarity of the pair. The average male displays broad shoulders and narrow hips while the average female displays more narrow shoulders and broader hips. This difference may seem trivial when we think in Earth terms only; however, when we think of it as secondary polarity, we see that Cosmic Science never goes to the extreme of balance, but calls for a contrast which gives a workable teeter-totter of balanced loads; thus, in this secondary polarity of male and

female, the mass difference of shoulders and hips shows that above the waist the male is female polarity and the female is male polarity; so also, in contrast to this, below the waist the male body is of male positive projective polarity and the female is of female negative receptive polarity. (Fig. 12)

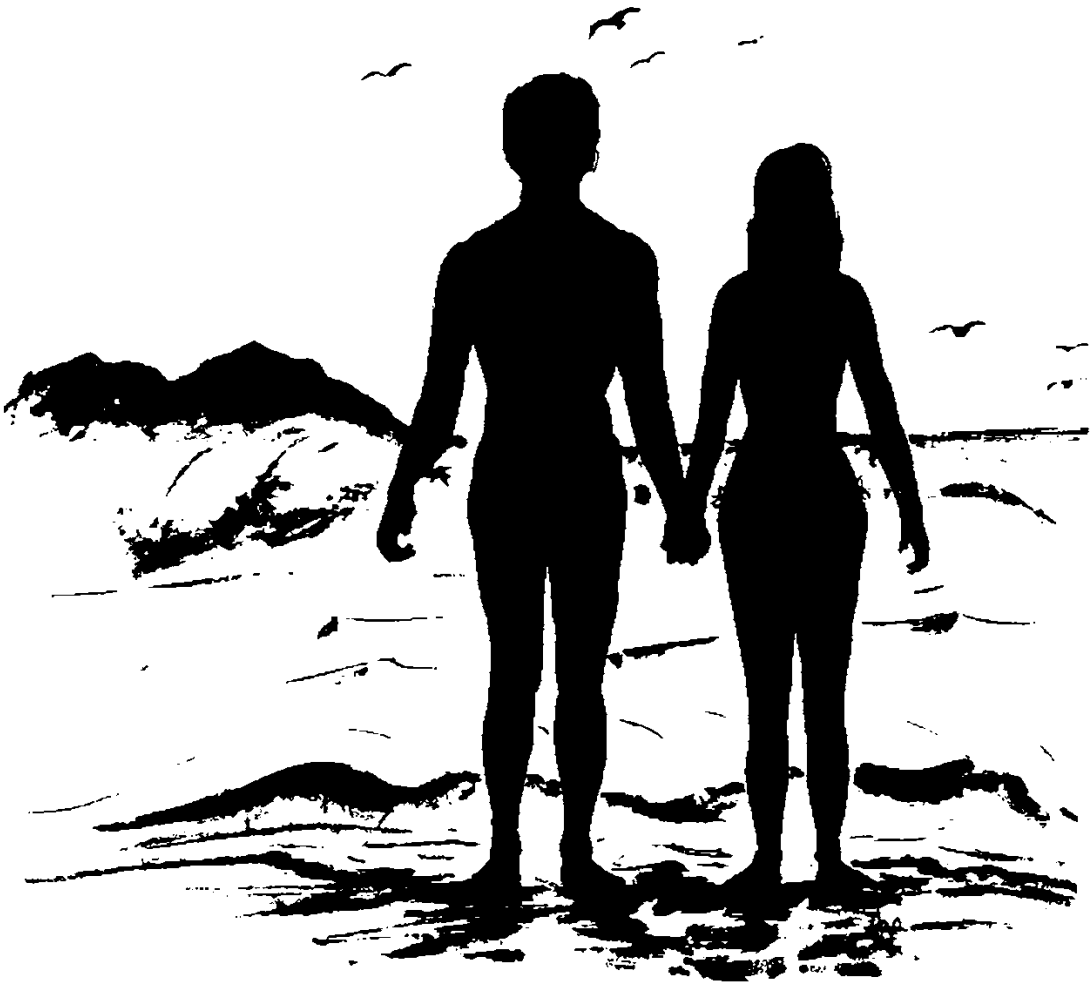


Fig. 12, MALE AND FEMALE FIGURE CONTRASTS

The negative side of us like planet Earth in Sun-Earth relation, manifests material things in abundance. Mother Earth is receptive to the Sun's magnetism and polarization, and she incubates and nurtures things physical. The male's negative polarity is above the waist, and therefore, he builds ships for the seas and air, and all sorts of labor-saving

devices. Because his head is in this polarity he is strongly influenced by physical evidence and his scientific guidelines tend to be strictly empirical. Contrasting this ingoing trait, the male with positive polarity below the waist, not only contains in that polarity the sperm for the female ova, but also the strong urge to deposit it. Thus the outgoing characteristics common to the total male body is secondarily "sex drive" with less discrimination than the female. The female whose personal junction of her cross is also above the waist but in positive polarity is outgoing to society in general. She pursues the intangibles as well as the tangible of social events. With her negative polarity below the waist she supplies her material contribution to this partnership experience by providing the elliptical (pear shaped) womb to nurture new bodies as earth nurtures seeds.

When we point to greater mass in either shoulders or hips as being female balance, we need supporting scientific evidence. Such evidence is supplied in the Feb. 12, 1977, issue of *Science News*. An article entitled "The Courtship of Patchwork Flies" by Julie Ann Miller depicts a fruit fly with one white side and one dark side. The caption below reads, "Sex mosaic fly. The right eye and wing are of female cells and have normal colors. The left eye is male and white, due to a marker gene on the X chromosome. The left wing is male and therefore smaller, and is marked with yellow cuticle." The article tells us that there are hundreds of color combinations of male and female characteristics, but only those with certain male-female balance are attracted to each other strongly enough to attempt copulation. In this writing only the compactness and color of the male and female are considered. The fruit fly tells us in color that the male polarity is associated with white light and the female polarity with ingoing, incubating dark light and that the male biological structure is more compact and thus, to be equal in potential must present a smaller outer appearance. Fig. 13 is our illustration of a greatly enlarged fruit fly that is presented in the article.

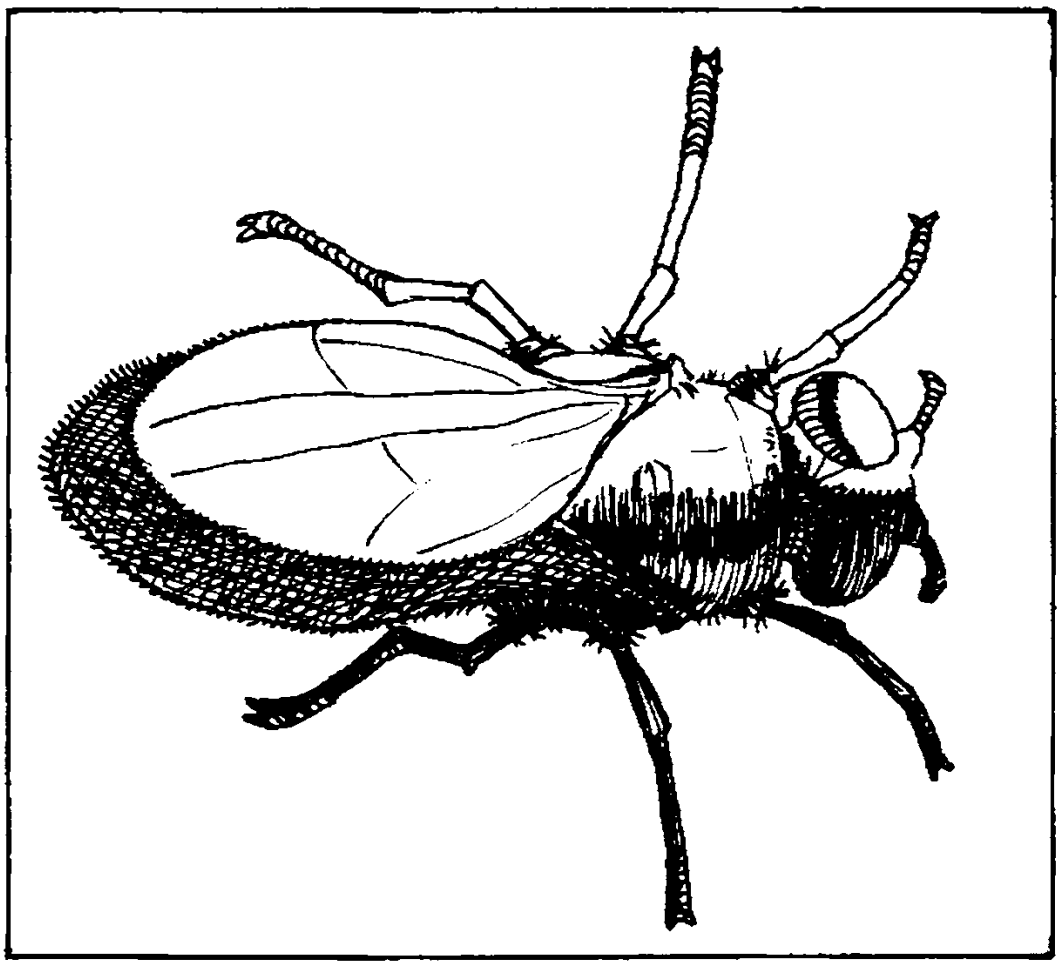


Fig. 13, MOSAIC FLY

There are many less visible secondary polarities throughout our mini-universe body. We have a right and left side to divide our horizontal cross polarity. The left side of the brain relates more to things physical, while the right side relates to things mental and idealistic. Our entire personality and personal interests float between two extremes of the materialism and idealism. Though the materialist of us speaks loudly of physical achievements, the quiet voice of idealism balances it by strong mental fortitude.

Throughout the body, male and female characteristics balance each other to work in harmony in our organs, glands, hormones and enzymes. Activating enzymes elevate the foods

we eat in a positive-negative stepladder effect to a level where they can be a catalyst to Light Forces which then supply power to the body.

The sex act which to empirical thinking is a physical act only, includes the entire scope of the Electromagnetic Density of Living Light. First the mental and physical attraction, then the courtship and touch, build up subtle charges in the contrasting polarity bodies. The physical emotions and activity, intensified by the secondary polarity of the hips and the touch of electrically sensitive sex organs while continually coupled into Electromagnetic Light forces, build up concentrated capacitance charge to overflowing, then consummates in a series of spasmodic pulses which dissipate built-up charge while also discharging both the mental and physical tensions of the whole bodies that are of contrasting gender balance. Because these spasmodic oscillations of charges happen to biological bodies that move slowly, the pulses are slow and deliberate; in electronics similar oscillations happen quickly.

One of the oldest discovered laws of electricity is that of oscillatory discharge. An early Leyden jar when discharged through a wire, was found to oscillate forward and backward from one coating of the jar to the other. If resistance was added to the discharge, the oscillations slowed. When one uses the hand to short circuit a charged condenser of over 100 volts, the oscillations are felt as a rapid pulse. When more body resistance is added the pulse slows down. This tells us that our physical body operates by electronic laws and that electronic laws relate to laws of Electromagnetic Light. What is true of one is true of the other.

In electromagnetic Space there are untold varieties of positive-negative and thus male-female balance. Celestial systems encounter these by moving in and out of them. Our bodies, like a Celestial System are a composite of gender and electrical contrasts, each contrast resembles the positive-negative plates of a battery that is in series.

Evolution for us is constant but contrasting change. Our Earth body is negative balance compared to our permanent body which is positive balance. Evolution then resembles that

of an electron moving through a battery, negative to positive then back to negative, etc., in a chain fashion. This happens to Life in form because it is so in electromagnetic Space. Our planet is finishing an excursion through negative balance Space where things strongly physical were in line and in tune with the nature of Living Space that Earth was negotiating. We are now approaching a more positive and denser area of Space. We might say, "We, on our natural Space Craft, Earth, are leaving the 3rd density and entering the 4th density!" The 4th density, being more positive is more compact and thus a quickening influence on our body-mind relations. The evidence of this gradual exit and emergence is apparent in our rapid change in physical and social sciences.

In the early years of the 19th century, people and nations became inspired by changing influence to desire to express more concern for individualism and self-choice. The males and some females working in industry started to demand civil rights and also better working conditions, uniform working hours and fair wages. The female began to demand equal say in affairs of state and home, and woman suffrage came at the same time that labor unions were born. When we note that small nations likewise began to demand equal rights, we must admit that the air of individualism and broader self-choice is world wide. These changes are external to us, Planet Earth and an accompanying large area of space is moving from a negative area of space into a more positive area of space. This causes mental quickening and drive, not only to people of Earth but also to those in accompanying systems. The influence that is pushing us to explore space, is pushing others to become more deeply involved in exploration. This accounts for the increased activity of strange craft in our skies. At the current time this desire for self-expression is causing worldwide turmoil in nations and people. Everybody in masses and individually are demanding of each other greater recognition and more equal rights.

Because the top contrast of the Electromagnetic Density is Gender, this same long-term cycle and polarity shift is causing gender confusion and a shift of gender expression. Our

gender-oriented bodies that were in tune with the long-term negative bandwidth of Space that our Solar System was passing through, began to feel the pressure of gender shift of our Space envirnoment. The predominating social laws concerning sex behavior fell by the wayside under the changing influence, and sex-oriented, four-letter words appeared in public print along with more revealing pictures of sex attractions and actions. The ultimate of this trend was unlimited pornography for sale. Along with porno was a great upsurge in homosexuality and lesbianism. Their demand for recognition and equal rights was encouraged even further into the unnatural by surgeons who assisted to create the opposite gender replicas of sex organs and to supply opposite gender sex hormones to alter the contrast that was natural to the original gender orientation of the body.

The changing influence also caused the female to become less passive while giving attention to what was previously male pursuits and male authority. The male, meantime, gradually became more passive to accept female pursuits and traits. Many are now looking more deeply into the unseen. The disturbances of all this will neutralize and pass away as it came. The physical is not boss over Mind even though its emotions have deep influence. When the mental attitude stabilizes to fit the more positive density, that which the 4th density of Space offers will far override the ills encountered enroute, and the mentality of the 4th density level will reveal truths that now are mysteries.

The example of tomorrow's science is in our midst in biological bodies that are reactors within Living Light and Space. Our current quickening, when allowed the freedom from past limiting scientific guidelines, will reveal what needs to be revealed if we are to develop energy without fuel and thus qualify to become scientists who explore Space with Natural, sophisticated Space Craft.

Chapter 15

Microscopic Perfection

Theoretically we can trace the invisible atom with all its qualities clear to Infinity via the two contrasts of Electromagnetic Density and the unrestricted Other Density; therefore a thorough analysis of material things such as biological bodies should reveal parallel factors detectable in Space. If we study the tiniest of biological living forms unattached to Earth (the single cell organisms) and find in their life style factors that parallel life styles of Celestial Systems, we will broaden our concept of Life on Earth and find that it too, is closely related to Cosmic Life. This relationship is not in conflict with many current astronomy findings.

Whereas, in the recent past, life support was said to come to Earth as sunlight, now many scientists conclude that we in fact, live within the Sun—that the pulsing, flaring, circulating Sun forces are a massive field that encloses planet Earth's field as well as those of other planets in our Solar System. If we find that certain configuration of biological structure resembles that of Celestial Systems, we may then conclude that energy factors do so also; that the energy which drives, heats and cools the Celestial Systems is one and the same energy that drives, heats and cools biological bodies. Most of the elements of Earth have been detected in Electromagnetic Space, and Celestial Systems are known to be built of these

elements. Since Earth is a unit within the Celestial System, then all biological bodies on Earth are directly related to all things of Space. Nobody physically pours fuel into the bodies of the Celestial System to keep them maneuvering. If we conclude that food is absorbed by biological bodies to, supply them with fuel for re-active ability, and that the reaction is to Electromagnetic Light, we may then assume that Celestial Systems and biological bodies are driven for mobility by fleet lines of force that first make up the elements of these bodies and then drive them as long as they sustain Living Pulse. Because we as warm-blooded bodies require a constant supply of food to remain in good health, we can easily become programed to believe that the food we eat is totally the power we move with. To soften this belief, let us remember that many species of cold-blooded animal life remain strong and healthy over long periods of time without food, which proves that food requirements vary with polarity balance. We cannot afford to cling to past concepts dictated by the experience of senses; to do so denies us personal revelations that result from being in tune with Cosmic changes that are upon us. Preconceived ideas concerning the biological body can hold us at an arms length from achieving commercial grade energy without the use of fuel. If food for instance, can be seen to be upgraded Earth polarity of proper resonance to match Space resonance, rather than a direct and only source of tissue energy, then new doors will open to reveal a common energy source without limit. If the smallest of biological bodies can be seen to be a biological reaction, we are ready to search all biology for further clues on how to achieve greater freedom from want and especially to know that we need not go backward to meet our energy needs.

The single cell is the tiniest of all living organisms; and the tiniest of appendages that move a body are "cilia" and/or "flagella" that extend as tiny microscopic hairs out of the body of single cells such as protozoa, sperm, flagellates, etc. These tiny, eyelash-type appendages are sometimes on a surface of a cell as a thick mat resembling stalks of grain in a

field; they also line many intestinal tracts, mat the surface of mucous membrane, reproductive tracts, etc. They are used in biological bodies to sweep fluids across a surface as well as to move single cell bodies in a fluid media. All in all they are a universal tool which operates in fluid or damp earth. A recently discovered fact concerning a cilium appendage is that if it is severed from the host body by a laser beam, this invisible, tiny hair swims off for a short distance, on its own. This can mean one of two things: (1) *stored energy in the microscopic hair acts upon that hair-like stem by automation even after it is detached from the host body.* (2) *stored energy of biological, atomic make-up when alive always stands in a teeter-totter balance and ready for action when called upon by Life forces. When this appendage is severed from the host body, it is still living biology for a short time and it reacts accordingly to fulfill its purpose. Because this living organism lives within a moving sea of contrasting Electromagnetic Light, it reacts as a biological pump. If the pump is also the appendage, then the appendage moves about in a designed manner.* This writer chooses the second because he is seeking to show cause rather than to gather more data to be filed away for future reference. Many articles that have been written end up with more data, while the cause sinks deeper into the unseen. If this unseen can be visualized to resemble Celestial science, then the activity will be seen in Electromagnetic Light, even as is logical of the atom which reacts at the velocity of light to Electromagnetic Space that has this velocity.

Until recently when the electron microscope came to the aid of science, celia were thought to be attached by ligaments to muscles within the cell. Now it is known that this is not the case. A cilium appendage has no direct tissue coupling but performs as though it does. In biology there are many examples of quick resonance and slow resonance. Many insect wings beat to the time of a high speed cavity resonator. The electrical charge of an electric eel organ travels the length of the organ far faster than nerve pulses travel or trigger. Flowers follow the Sun or open petals to the Sun so slowly that the motion is

not detected. Cilia sweep, twist and stroke at variable speeds not unlike what walking and running is to us. As cilium appendage must twist in different directions at several points, sometimes at the same time, the appendage must have a possible 360° application of power.

The illustration of a cell membrane and cilia (Fig. 14) was inspired by a drawing by Meltzer, in Sept. 1976 *National Geographic.* Figures 15 through 18 are slight modifications of illustrations contained in an article "How Cilia Move" by Peter Satir, which appeared in Oct. 1974 *Scientific American.* In our illustrations, pains were taken to conserve visible contrasts, as without them an energy teeter-totter cannot react. A visible contrast is evidence that there is a direct tie between biology and Space that gives it life support and power. Figure 14 depicts a cilium appendage as an extension of the cell membrane and its inner structure in cutaway form. This is about 100,000 times the size of an average cilium appendage. Note that the appendage body is elliptical as is a vein in our vascular system, and especially note that there is evidence of a spiral at the base of the appendage.

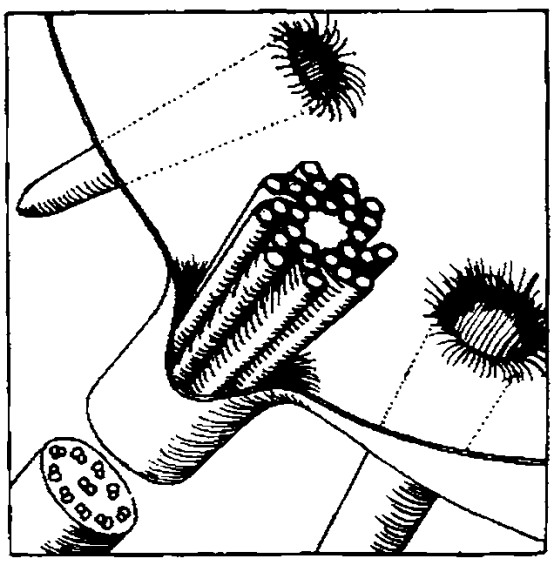


Fig. 14, CELL MEMBRANE AND CILIA

Figure 15 is a reasonably accurate depiction of what an electron microscope presented as a micrograph of cross sections of gill cell cilia of a mussel. Note that the ring of doublet pairs just inside the membrane is an ellipse and that the membrane is a variation of an unequal, 4-sided tetrahedron so common to biological structure.

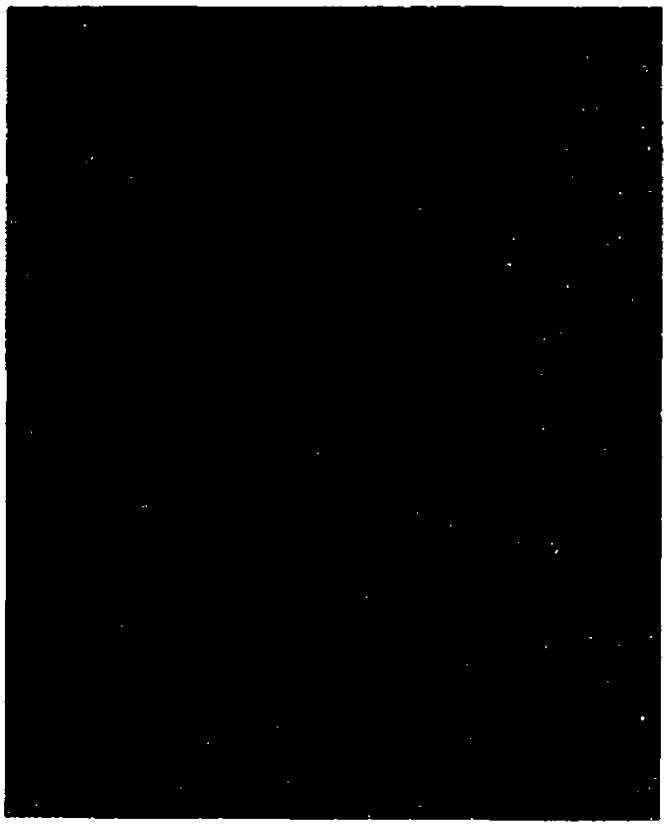


Fig. 15, REPRODUCTION OF ELECTRONMICROSCOPE MICROGRAPH
Note especially that symmetry is common to the center while unsymmetry is common to the outer membrane.

Figure 16 is a more clearly detailed depiction of what the electron microscope saw of a cross section of a cilium sheath. It also shows a six sided hexagon near the top as a bridge and an axis point.

Figure 17-a is a side view of a cilium sheath which consists of a central pair of true spheres bound together by cubic structure rings. This central pair has a direct antenna reference to 9 pair of doublets which make the outer ring of molecular muscle which, as 9 pairs, is equally divided into 18 spheres and spheroids side by side.

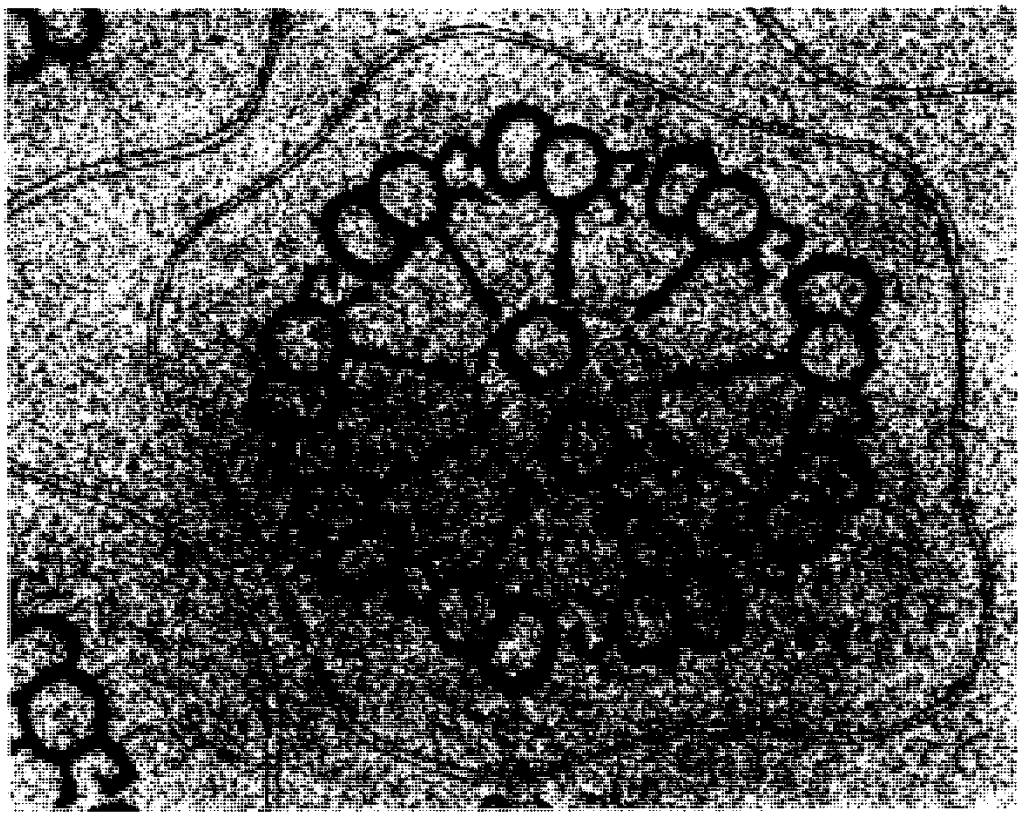


Fig. 16, CROSS SECTION OF CILIUM SHEATH

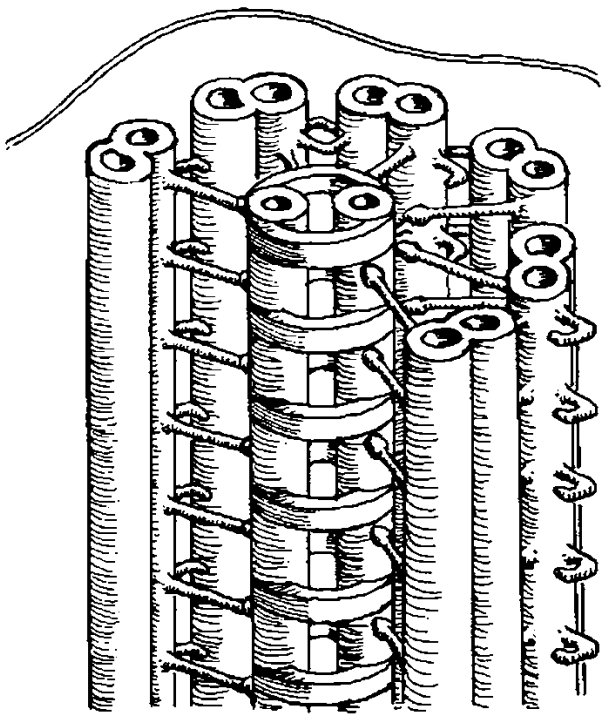


Fig. 17a, SIDE VIEW OF CILIUM SHEATH WITH CUBIC RINGS

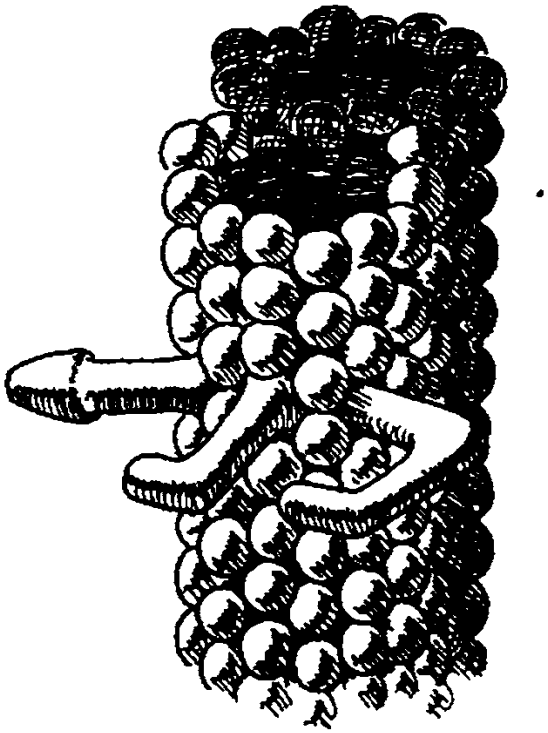


Fig. 17b, ENLARGED DETAIL OF MOLECULE STRUCTURE
OF A DOUBLET PAIR

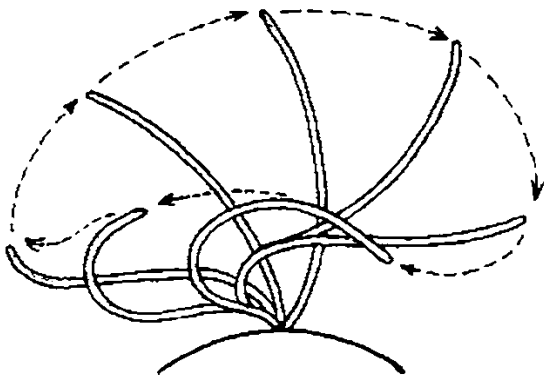


Fig. 18, CILIA TWIST

Figure 17-b is an enlarged detail of molecule structure of a doublet pair and its antennae.

Figure 18 shows how long and short cilia twist at different points in a progressive manner, and that to do this, a 360° angle of applied force is necessary.

Without a Space contrast reference as the driving source, a researcher must resort to giving great activating powers to ATP (adesonine triphosphate) and great power to sugars made from food, plus great internal thinking ability to the microscopic hairs that perform with precision. With Space contrast as both supply and drive, serving a free Wisdom beyond Electromagnetic Light, the cilia appendages become as natural to the cell as walking and running is to us. We do not direct our muscle movements any more than an electronic computer punches its own keys. We consciously desire to move, the motion is automatic within a subservient energy setting of Electromagnetic Light.

Going back to the drawings, we can see a mini Solar System. The two true spheres in the center of the ring resemble a stationary binary sun center. The square stock rings that appear to be at a slight slant, represent unbalanced positive force common to a sun center. The antennae that lead outward to the 9 pair of doublets represent central control to a 360° responsive ring of two contrasts which are a sphere and a spheroid (ellipse). The sphere has antennae common to outgoing force and the ellipse does not. The spheroid has a reference to the outer membrane which has several light and dark layers, as depicted in membrane data.

A sphere and cube know White Light, while a spheroid and rhombohedron know Dark Light. They know each other at any level of the electromagnetic Density with the same subtle fascination that a mature boy and a mature girl know each other. Secondary contrasts happen within primary contrasts, thus projected denser outgoing White Light is instilled in the nucleus of the cilia and ingoing Dark Light is present from the surface inward. The basic contrast of the cilia is between the core and the surface and a secondary contrast is present in the outer ring of spheres and spheroids. This ring of doublets consists of an earthly teeter-totter. The center of Mother Earth is a dense core compared to the outer mantle which is less dense. Mother Earth is both positive and negative in the Sun's field. So also, by contrast do the cilium rings perform in the cilium fields.

The cilia serve the cell. At the base of the cilia is a minute vortex; within the cell nucleus are two vortices. The DNA chain is depicted in beautiful color in Sept. 1976, *National Geographic.* In these illustrations, the DNA chain is a double helical spiral, and the connection between the two sidebands are depicted as spheres and curved couplings; the curved ones are depicted as darker than the sphere couplings.

In the January 1978, *Scientific American* is a beautiful presentation of illustrations from Mass. Inst. of Tech. and Duke U. School of Medicine, of X-ray diffraction analysis of RNA messenger molecules. These illustrations of the molecules are reasonably good resemblances of logarithmic spirals. When one analyzes element chain figures of atomic numbers and weights, they too fall into the category of an accumulative density spiral. As the term Spiral Galaxy is an example of Celestial Spirals, then all spirals in physics must have a common cause and common origin. The cell and its cilia are a copy of Cosmic unity. It is visible to us mentally if we do not try to think with our recording organ, brain, or try to see the cause of a thing exclusively in that which is investigated.

For those who wish to inspect what has been revealed of cell life by modern instrumentation, there are several copies of *Scientific American* that cover a broad field. For cilia see Oct. 1974; for RNA see Jan. 1978; for living cells see Oct. 1975; for cell membrane see Dec. 1975. The 15th edition of *Encyclopædia Britannica* also covers these topics but lacks revealing illustrations for some of them. The deeper we look to find similarities in biology common to factors in Celestial Systems, the more evidence we uncover for Cosmic Unity.

In line with living single cell organisms, there are massive deposits of single cell skeletons past and present. Diatoms, which are microscopic algae with cell walls strongly impregnated with silica, are among the most abundant organisms on Earth. Huge deposits of industrially important diatomaceous earth are diatom skeletons. Microscopic single-celled radiolarians, though not as abundant as diatoms, are abundant in earth waters. Past deposits of their delicate symmetrical skeletons

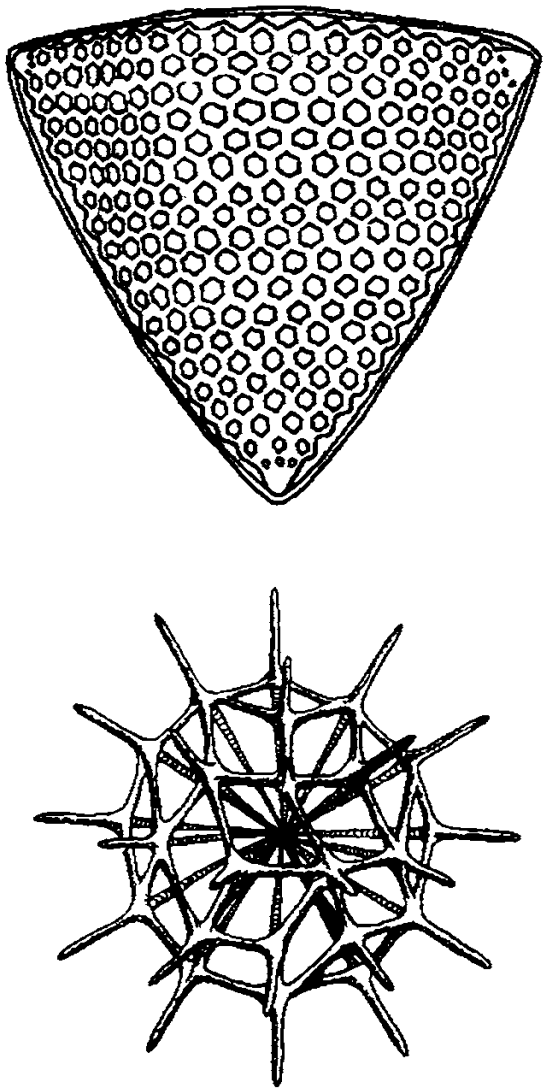


Fig. 19, DIATOM AND RADIOLARIAN SKELETONS

are the major constituent of marine sediments in some areas. In line with electromagnetic contrasts, diatoms that in skeletal structure present uneven tetrahedral patterns are more abundant in cold waters and the sun-like symmetrical radiolarians are found in warmer waters. Likewise recent studies of trochospiral shells show that rigid-coiled (destral) shells indicate populations from warm waters, while left-coiled (sinistral) shells characterize residents of cold waters. Each balance of Light leaves its personal tracks. (Fig. 19)

Radiolarian and diatom skeleton structure are combined symmetry and unsymmetry. The symmetry relates to the nucleus and outward, while the unsymmetry generally in the form of four-sided unbalanced tetrahedra, is the "meat" of the skeleton. Always one sees external reflection and internal reflection. All single cell organisms are born and survive in water. Water so vital to Life is unsymmetrical.

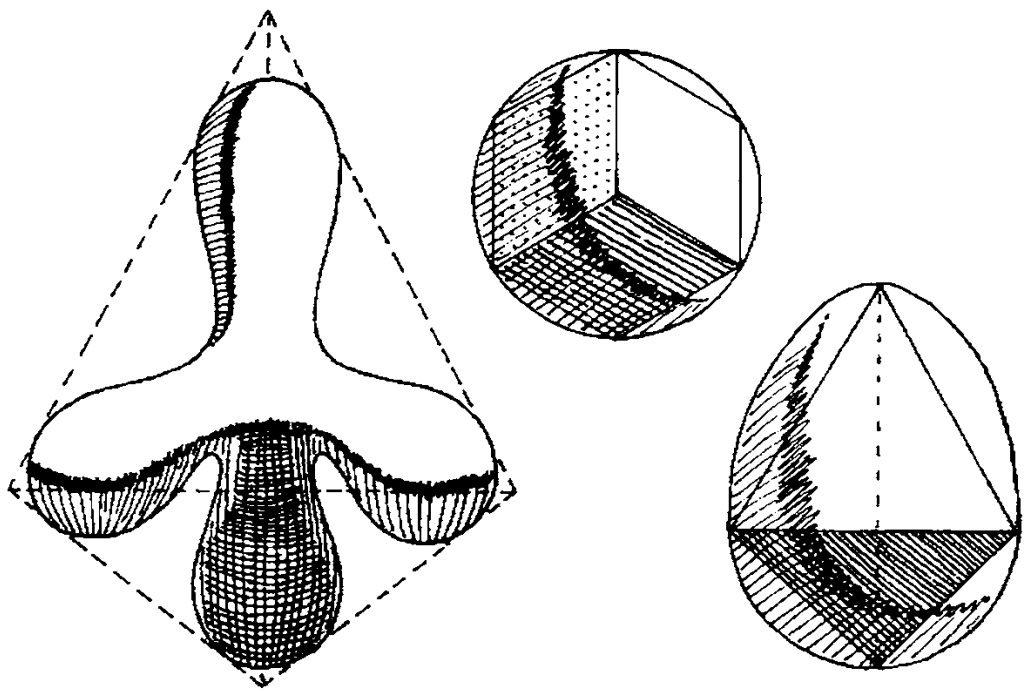


Fig. 20, WATER MOLECULE (a, b, c)

If from data on atomic arrangements we draw a molecule of water, we see a 4-sided tetrahedron. This shape will not fit into a cube, but when we enclose it into curved lines we have a crystaline egg. (Fig. 20: a, b, c) Is it any wonder that a young science sees life in form as a product of the sea? A natural vortex in Space is also an egg shape, as is the RNA chain of elements in the cell nucleus. Electromagnetic Light is the womb of Electromagnetic Space, and nothing whatsoever is exempt from its influence. The contrasting tracks of Electromagnetic Light are everywhere visible. By their tracks and by their works we shall know them. When we know them personally, they will serve us as Consciousness at any conscious level we can personally conjure and give attention to. The sky is truly the limit and the home of electromagnetic substance and drive.

Chapter 16

Light and Dark is also Hot and Cold

It is well publicized that planets far removed from the Sun, develop more heat on their own than they receive from the Sun by so called heat radiation. If such is true of planets, it is even more so of biological bodies which in Cosmic terms are more personal and closer in alignment to Creative Spirit which is the most personal of all since all else relates to It for Cause and for individuality. A good example of a self-contained heating unit in a very trying situation is that of the birth and survival of baby harp seals. They are born into this life in a −30°F. temperature on an ice floe, unprotected from chilling wind, deserted for a time by their mother, without food or shelter; yet, they survive in perfect comfort without a shiver, in spite of the fact that they do not have a layer of blubber and that their wet fur affords little if any protection from extremely raw elements. January 15, 1977, *Science News* submits a lengthy article concerning broad research on how the baby harp seal manages to keep warm. Their search was for certain body fats and cell structure which would supply rapid heating to the baby seal. The search though, like so many others, does not give conclusive answers. The harp seal study is only one of many such studies. Arctic and Antarctic life has been thoroughly investigated for internal means of manufacturing heat or

anti-freeze solutions that make survival possible under trying conditions. Research on specific species always reveals that each has a slightly different arrangement of life and heat support; thus the search is endless as they do not have a common base within which each finding may have a reference. The lack of a common reference is man-made because scientific eyes are glued to an effect which cannot see Cause, even though their formulas designate outside cause, as does $E = MC^2$. This formula relates energies of space to energy in atoms and naturally, to their heat potential. A free current flow is caused by eliminating magnetism from a super-conductor by the application of extreme cold upon an elliptical shape of mostly diamagnetic materials.

Simplicity lies away from intermingled expriences, local findings and local interpretations. Thus we again need to mentally back up toward Infinity and see man's experiences and the warm and cold-blooded animal life with their different characteristics as outlined previously.

With positive-negative Electromagnetic Light as a driver of atoms and biology, it takes very little imagination to expand man-made dissimilar metal junctions (thermocouples) that produce heat or cold with forward or reverse flows of electrical current, to be the cause of heat in animal bodies. Biological bodies contain the same basic elements that are present in thermocouples. When we assume that man-made thermocouples are copies of Nature, we, by adopting Cosmic drive, see heat and cold possible in any situation and especially in Living bodies. Mother Earth, with her very dense center, less dense mantle and radiating cupped Van Allen belts, like all planets makes most of her own heat like the Sun makes hers, but at a different level. Mother Earth is a thermocouple in more ways than one. Even her surface is of positive-negative balance. Ocean currents turn to the right north of the equator and to the left south of the equator. Large areas of water that spiral to the right are a few degrees warmer than masses of water that turn to the left. In atmosphere, as is readily detectable in weather satellite photos, the warm high spirals turn to the right

and the cool low spirals turn to the left. The South Pole is colder than the North Pole, and in jungles south of the equator one finds more climbing vines than in the north and, as a rule, they spiral upward opposite to that of vines north of the equator. Earth with life support on its surface, has an energy equator at that surface. A tree thrives in two polarities of the surface of Earth. There is a tree above the surface and an upside down tree (root system) below the surface. Many lesser plants have their fruit underground while the top of the plant and its blossoms are above the surface. The fruit of a tree above the surface, grows between where the flower was and the twig that supported the flower. The tree is upgraded Earth polarity; the fruit is upgraded tree polarity.

Animal life also is divided in the same manner by habitat. The bird has white meat on its chest which, though not a muscle, plays an important part in the energy factor necessary for quick flight. It lives and flies nearly exclusively in the quick, positive polarity above the surface of Earth. Positive balance birds have a high body temperature. They though, have cold feet and thus a divided blood stream for their feet. The blood of a bird is as unique as is its mode of quick travel. The 4-chambered heart with a complete separation of arterial and venous blood is like that of mammals, but the aortic arch turns to the right, where it is to the left in mammals. The blood of birds has more red corpuscles per ounce than any mammal. This intensity is in line with a demand for high volumes of quick (positive) energy. These red corpuscles are elliptical, slightly biconvex, nucleated discs like those found in lower vertebrates, but unlike those of mammals. These red corpuscles in birds, for strong contrast, are larger than those of mammals and the white corpuscles also have different characteristics and functions. The temperature of birds is higher than in other biological systems, and the body along with its waste products is more acid in balance. Both heat and acid are positive factors. A bird that flies in atmosphere is of positive energy balance and its life support taps are balanced to intercept a positive balance energy that is present above the surface of the Earth. Marine life that lives below the surface

has a different odor than birds. A fish handling dock is easily distinguished by its smell as is a bird sanctuary or pen. Acid and alkaline are positive and negative respectively, so also is the environment above and below the surface of Earth.

Some plants grow faster at night while others grow well in daylight, and all of those factors relate directly to White and Dark Electromagnetic Light. Man's generated electricity is achieved by pumping of positive energy flux, while Nature's generated electricity can be either positive or negative balance flux and variable combinations of these. In all cases there is always Nature's teeter-totter that works with balanced loads. There must, though, be a differing activator for different life styles. A warm-blooded animal body needs a constant supply of food in order to maintain an Earth (negative) balance in the body and to keep that body highly functional. Cold-blooded animals *are* Earth balance and Earth polarity. Their vascular system receptors of energy and their tissue are of negative balance, and their needs for intake of food are correspondingly different from warm-blooded animal life. A cold-blooded serpent, frog and many others that breathe with lungs, can survive for long periods of time without food, with minor if any ill effects. Cold-blooded fish, like salmon that live below the surface of Earth, remain super strong while finishing their purpose in a wild venture back to their spawning ground which, in land miles, may be a wild 3,000 miles up the Yukon River, where 3,000 miles becomes as 10,000 miles actual distance when rapid current flow is considered. While their body was growing and developing, the food chain and its Life forces was a necessity. When fully developed and mature, the need for food does not exist for that extremely negative body. The salmon is a natural negative balance receptor of negative and positive drive without a constant supply of food. Where the bird is white acidic balance, the fish, with its dark mioglobin and dark blood mass along the spine is alkaline balance. Each in their balance are a tap of the same Light forces, but as in Gender balance, each represents a reactor of specific balance.

The torso of a fish does to a degree resemble the torso of a bird. This observation, though, is only superficial. Fish and birds are electrical opposites. Fish relate to the negative environment and birds to their positive environment. For one to have become the other would have required drastic changes.

All vascular systems have much in common. They circulate and deposit electrical charge, they pulsate outward and flow inward. Arteries are more round in shape than veins which are elliptical tubes. If pulsation ceases all other secondary energy functions cease. The three types of vascular systems that circulate blood, either warm or cold, are divisions of light and dark with a definite detectable balance of light and dark.

Figure 21-a depicts the vascular system of a mammal. The dark outline depicts two divided heart sections, one arterial and the other venous. The black dotted tubes depict the returning venous system and its direct path to the lungs. Following the lungs interchange and charge, the light tube remains separate until they reach capillaries, where the lung charge is deposited to tissue. The mammal heart and body as a living unit represents the highest form of biological Life on Earth. It also represents an equal balance of positive and negative light.

Figure 21-b depicts the vascular system of an amphibian, such as a frog, that is cold-blooded but breathes with lungs. The fact that the amphibia are cold-blooded, calls for a less-divided arterial-venous system. The heart is in part a mixing chamber, as it is not completely isolated as light and dark. The oxygen-charged blood upon leaving the lungs, passes by blood going to the lungs. It can be said that they divide by polarity to their respective attraction. The dark, oxygen-poor blood proceeds to the dark center, while the oxygen-rich blood follows the light to the capillaries.

Figure 21-c depicts the vascular system of a fish that breathes with gills instead of lungs. The heart is a two-chambered, through-flow valve and pump. This extreme difference shows that the fish that live entirely beneath the surface of Earth are strongly Earth-polarized and, as they take oxygen from water

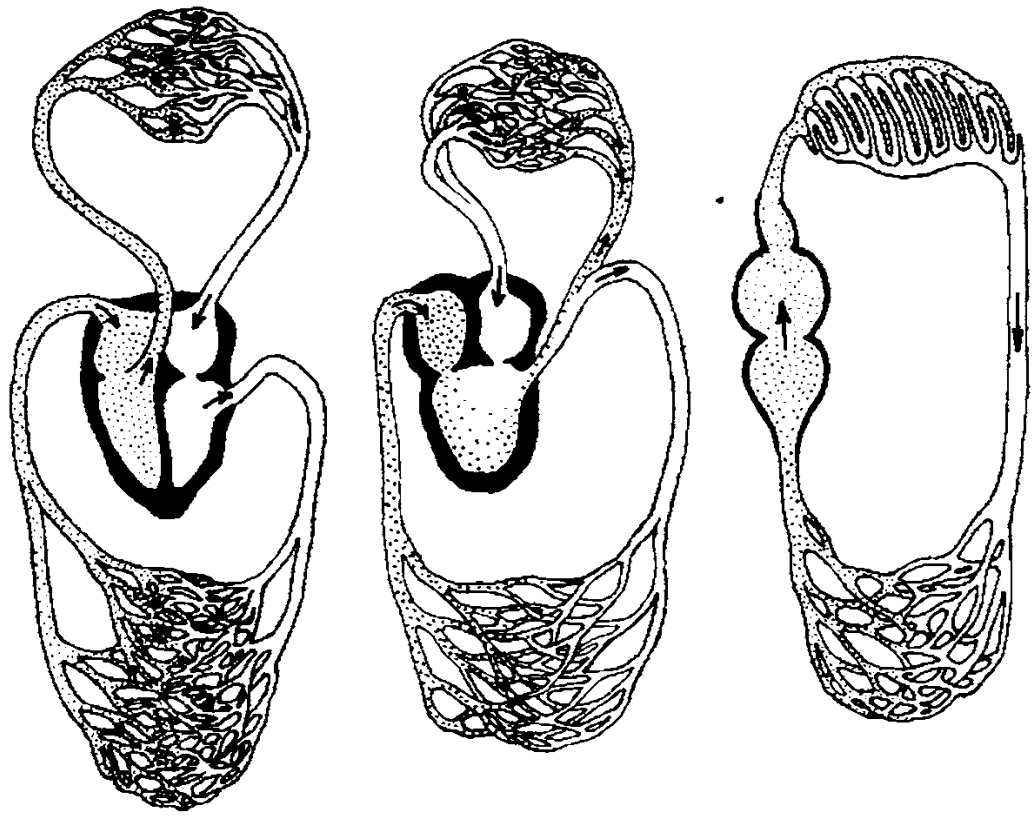


Fig. 21, a, b, c, THREE BASIC HEARTS

with gills, their cold vascular system is far more negative and venous than that of an amphibian with lungs. A fish's vascular system is the extreme opposite to that of a bird.

A developing embryo starts to pulsate early in its development. Its pulsing, crystaline blood stream activates the developing body step by step until it is developed to a state that can adopt breathing. When breathing starts, the new form adopts its Cosmic host and becomes physically an independent Life form. The light and dark contrasts of the mammal body is repeated in light and dark contrasts of muscle tissue which, even as the vascular systems, are living crystals of two contrasts. The pulsing blood stream is the initial activation of the tissue system. The muscle cells immersed in a flow of driving lines of Cosmic force, become a receptor of Cosmic Current parallel to that of the pulsing blood stream. Each pulse is a compressing and decompressing, which is a continually changing strain and

relax, not unlike a peizoelectric device that changes polarity each time a compression is released and the resilient device expands to a normal state. Muscle tissue likewise is an organic piezoelectric receptor that accumulates forces passing through it by applied tensions and strains. They, however, cannot thus perform unless they are first charged by the Life-giving pulsing blood stream which too, in piezoelectric fashion, is a positive and negative teeter-totter. One polarity which pulses, activates the arteries and heart chambers; the other, which is a decompressing action, acts upon the elliptical veins and the dark side of the heart and lungs.

Did you ever try, while standing, to hold an arm out horizontally from the shoulders for a few minutes? If not, try it and note how quickly the lack of motion creates fatigue. That same arm can move all day in work and still be strong in the evening, but it cannot hold still and remain strong. Even holding a dead weight without moving or rest dissipates tissue force. Observe a professional weight-lifter in action. The physical effort is a co-ordinated, continual effort and any pause of even a few seconds duration is a sign of defeat. First the professional weight-lifter gives mental attention to the project at hand. When the body is mentally charged to a high degree of readiness, the physical lift as a co-ordinated series of tensions and strains, becomes temporarily as great as the mental depiction. Any loss of faith or any pause detracts from the strength. Also, the ability to hold the weight suspended above the head is as hard as the lift; if this hold be prolonged, it becomes too weighty to maintain.

The microscopic cell organism and its cilia appendages are no different than mankind's arm. A cilium is a universal tool of mobility as is a physical appendage of us. They are living Crystaline appendages that perform, in their state and for their purpose, as naturally as Solar Systems function in their state. What they have in common is drive. The same drive that puts energy in food or in fuel gives direct energy to a living organism. We as a biological body, tap this drive by the aid of Cosmic Science not designed by us. We, too, as secondary

creators can tap Cosmic forces for commercial and social use as soon as we, in total faith and knowing, set our stage to do so. Mind which is based in the Other Density is far denser than the brain and far more free to know independently. Our Mind cannot be imprisoned, but our brain can.

As surely as every body from atom to macrocosm forms a field surrounding it, only because they disrupt the lines of force passing through the body, so surely also is our brain activated to become what it is. When the brain becomes deactivated by the cessation of pulse, that brain starts to dissolve. The 'I' of us is not electromagnetic, it is though deeply involved in this experience. The depth of our experience depends on our personal balance between brain and Mind, thus in a sense, between Mind and matter. In biology, Mind functions in both warm and cold-blooded bodies. All heat, Celestial and biological is tapped heat. Though the body is warmed by Sun heat, it also taps much of its own heat by tensions and strains, and regulates its own temperature. The potential for either heat or cold is always available for any biological body born into the contrasting streams of Electromagnetic Light. Atoms that bridge the gap betwen Light and mass are also born. Electrically, they too, are gender opposites as well as positive and negative opposites. In fact, research into the sex life of any biological body is a local study of effects created within Living Light.

Chapter 17

Cosmic Biological Drive

There are many methods to apply energy to give motion to a body on the surface of solids, or to one immersed in semi-solids; however, a serpent which has no appendages needs a different application of force than do those that utilize appendages for propulsion. The oldest description of how a serpent moves across a surface consists of describing how it pushes and pulls inself first one end and then the other to transfer itself by squirming "steps" across a smooth surface either hard or sandy. Next it was said that a serpent moves itself by pushing with its sharp edged, crescent shaped bottom scales against objects it slides over to move forward. Now after years of various observations, it is said that a serpent pushes itself with a bump that forms on its tublar body, which bump moves the serpent forward by pushing against whatever projections are in its path. All of these are incomplete observations. The only time a serpent has to resort to push and pull squirm is when it is on a smooth surface such as a roadway. Concerning the push with sharp-edged scales, many serpents do not have this mechanical hinge in which the sharp edge is a scraper to keep dirt from entering the hinged joint. The serpents that do not have these open crescent-shaped bottom scales, have a smooth bottom. The crescent-shaped scales are

enclosed in a common flexible skin, the scale edges are covered and the hinge consists of a soft, flexible membrane between the scales. Concerning the bump that forms as a pusher and which is the latest analysis of serpent propulsion, it is true—but incomplete. That bump is much more than a physical projection. It is an anchor that the serpent moves across in a manner of how a boat in shallow water is pushed by a pole that anchors to the bottom of a shallow lake or stream.

I kept a gopher snake for a period of two years. A gopher snake is a constrictor, a variety of the non-poisonous king snakes. I am well qualified to suggest easy methods of convincing one's self that a serpent is much more than appears to the senses and that the internal forces are a marvel of internal magnetism. Take a friendly serpent to the middle of a vacant street or road. To escape from there the serpent has to push-pull itself in a slow, laborious, and squirming manner. Then for a second attempt, place sticks or boards in its path at intervals of about ½ the serpent's length to make an uneven path to the side of the smooth roadway. That nearly helpless serpent becomes a marvel of travel with these bumpy aids. The photograph (Fig. 22) shows my pet traversing a plastic tube. It had to form body marcels to push and pull itself through the tube to reach the end and there get an anchor for internal forces to act upon. The serpent does not propel itself by pushing with the bump, but rather the bump remains against the end of the tube, and the serpent moves its body through, over or across the bump it has formed. The easiest way to describe this propulsion is to observe the serpent swallowing a rodent. The act of swallowing is a traveling bump that pushes the food toward its destination. Where the swallowing consists of the esophagus as a tube pushing the food with a 360° influence, the bump for propulsion is formed mostly in the lower half of the serpent tube, i.e., in the area of the crescent scales that cover the bottom of the serpent. A traveling serpent can cause several bumps at one time. As soon as the body senses an uneven projection, a bump forms on the serpent bottom and, as if by magic, the serpent moves across the stationary bump or bumps.

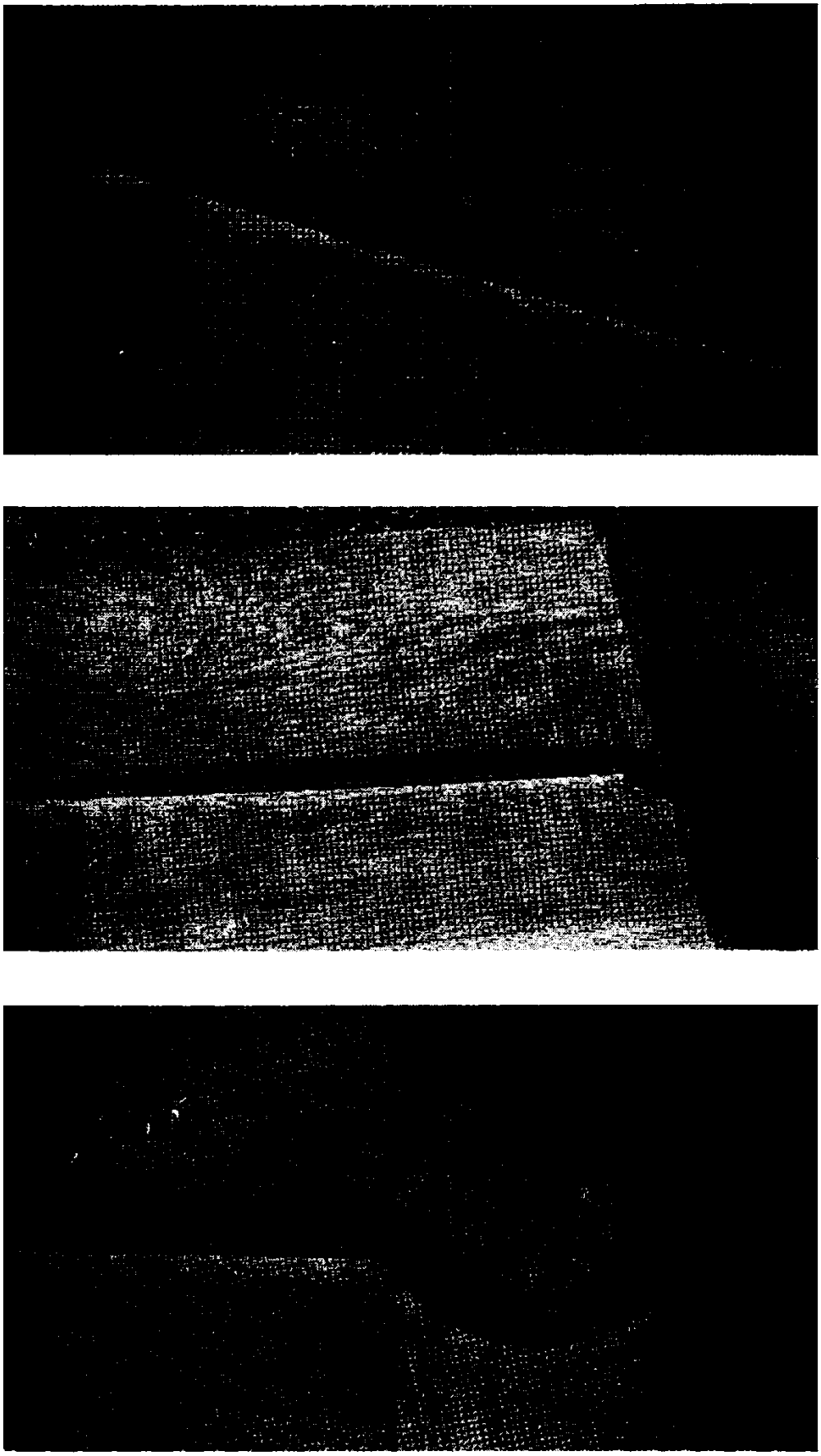


Fig. 22, SERPENT IN TUBE AND OUT OF TUBE

If you want a pleasant surprise, hold a serpent in the air by its middle and then encourage it to escape backwards. This can be done by letting its tail touch an object that it may escape toward. The bump that ordinarily propels the serpent forward, can suddenly switch to be at the opposite edge of your hand, and the serpent is efficiently propelled backward (Fig. 23). The bump is hard to see as it blends with the external surface. It can, however, be very definitely felt by hand as a vital and powerful bio-electric implement.

Electrical energy in man-made devices is now applied by several means that convert energy into mechanical push. A transformer by inductance, manipulates energy pressures; a capacitor in isolation, transfers energy information and charge, and/or squelches by absorption; electro-mechanical devices transfer energy power to be mechanical power. An early electric auto engine starter which replaced the crank, was activated by a floor switch. Now a turn of the key supplies energy to a solenoid which, as a mechanical tube and plunger, compresses to pull the switch on. The tubular serpent appears to use this principle to move across the anchor (bump). This of course calls for accumulators of electrical energy and diodes to guide flow, but remember, the serpents moved about forcefully long before civilization built electrical devices such as solenoids and electromagnets. Biological electricity is one and the same electricity that man uses in his devices, but at a higher state of that force.

Positive electricity and magnetism can be divided into contrasting states of current flow and polarity influence. Negative electricity, when investigated fully, will no doubt be seen to be the other side of Nature's pulse and flow. The study and application of magnetostrocity is that of tensions and strains. Ferromagnetic nickel shrinks when placed in a strong magnetic field called, "charging a magnet." Ferromagnetic iron and cobalt expand but at different rates when placed in a strong magnetic field. Though this manipulation is called charging a permanent magnet, it is actually that of electrically creating internal tensions and strains that result in an outer field as

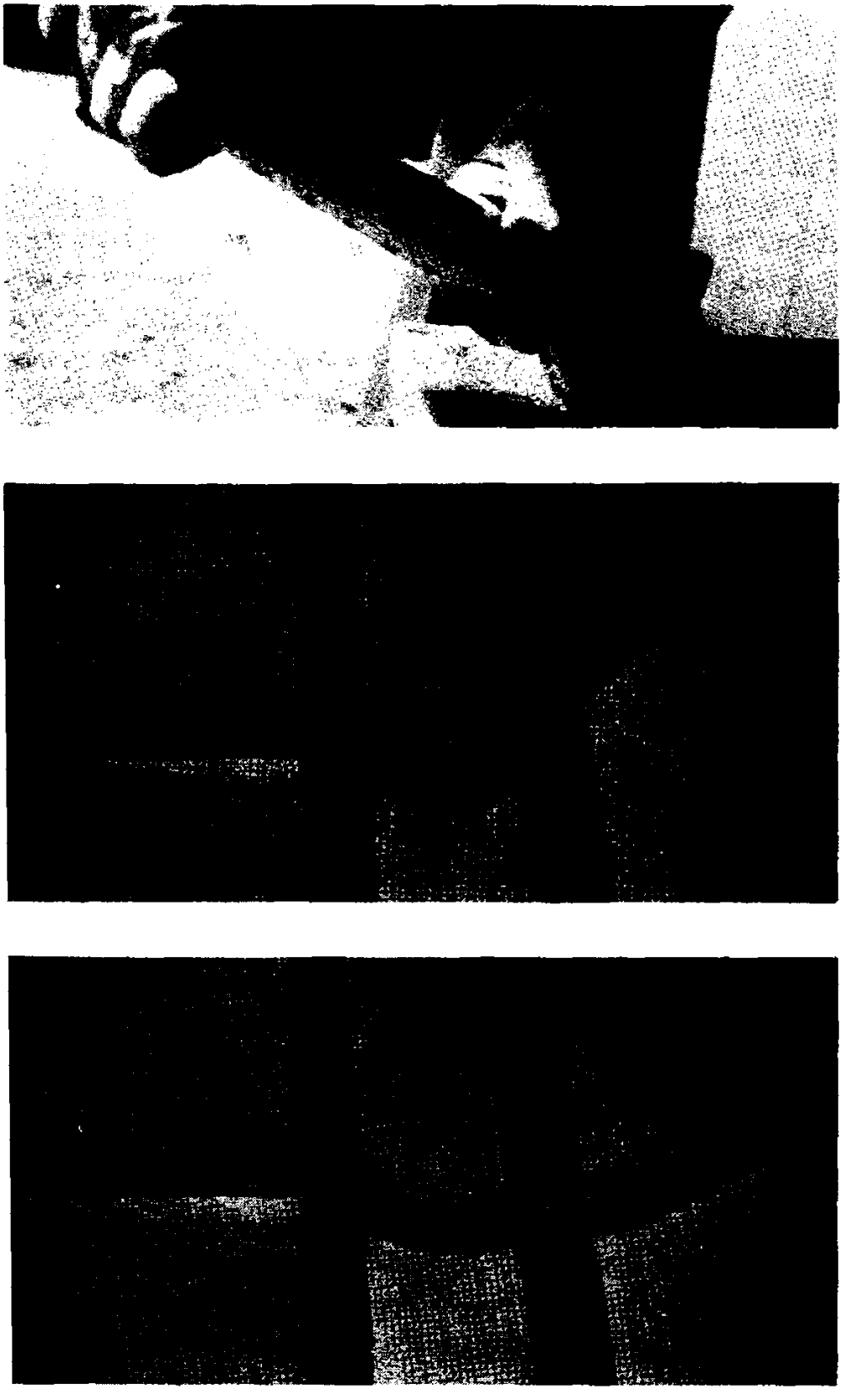


Fig. 23, SERPENT ON SLATS WITH BUMP FOR GOING AHEAD AND BUMP IN HAND FOR BACKUP

active as is the atom which is coupled into Electromagnetic Light. As the magnet is of molecular structure, it is more physical than the atom. It is a miniature copy of distortion or unbalance within Light balance and therefore a reactor within it. If the tensions are released by heat, reverse "charge" or by violent beating, the field leaves relative to tension reduction. Biological piezoelectric power is that of changing tensions and strains. It is also living power that can be mild and gentle or strong and quick, depending on the intensity of tensions and strains and the arrangement of tissues used. The electric catfish, for instance, has a wrap of rhomboidal cells of a fine gelatinous substance immediately beneath its skin. This tissue can produce up to 450 volts of electrical tension and sufficient current to stun even a man.

The serpent's back and sides are a network of elliptical cells. These cells have a fatty acid inner lining and when the serpent is urgently moving and using many internal bumps, these elliptical cells are stretching and shrinking in negative, piezoelectric frenzy. The catfish's shocking organ is one style among many. The others use a series of cellular tissue tensions and strains to activate shock. Surely the catfish likewise tenses its jelly to create living magnetism and an energy tap. A serpent though, instead of producing shock, uses its elliptical cells to power an internal inbalance, which at any spot on its tube becomes a wonder of electrical propulsion without appendages.

Myofibril, the functional unit of a vertebrate skeletal muscle fiber, is a bundle of telescoping or interpenetrating arrays of thin and thick filaments. This telescoping in and out lengthens and shrinks the muscle. In the serpent this appears to be a continuous one-way process which can switch from go or backup anywhere on the tubelike body.

My serpent decided to eat profusely during its first year of captivity. He was continually strong and active and changed his outer skin covering several times. During the second year the intake of food was meager with up to 4-month intervals between meals. At no time though was there a loss of power when needed, whether or not he was hibernating. Though food

and its Life forces of upgraded Earth polarity are essential to good health, there are many instances where this intake does not apply to biological power. For instance, the tiny humming bird without intake of food can fly great distances, using a tremendous amount of power to beat the wings, with insignificant weight loss to its tiny body.

It all boils down to this basic. With only one constant of Space, the "speed of light" of unknown origin, all things biological are mysterious. With two contrasting constants of Space as a basic theory, all things that contrast in biology or otherwise, are re-actions within the basic.

Chapter 18

Electromagnetic Variety and Similarity

Variety is the spice of life. Those who know self and enjoy self-choice soon become bored when variety is denied. As the animal kingdom thrives on sameness and repetition, and seemingly lacks boredom, we may assume that it was Creative Life that loves variety and has ultimate choice, that conceived and designed the variety common to each species and each mode of animal propulsion.

In 1975 my wife and I treated ourselves to another trip to Marine Land, near San Pedro in greater Los Angeles. There we saw an act new to us in which sea lions, the big cousins of seals, were the performers. The trainers wet down a smooth cement surface bordering the pool, then on a platform a few inches high that bordered the wet surface, they had a sea lion poise for the audience. At a given signal, the sea lion plunged from the low platform as though plunging into water, and lo and behold, the sea lion slid with ease across the wet surface as though it were well greased, or as on frictionless ball bearings. The first slide was clear across the wet surface, coming to a smooth halt near where the water thinned. The second effort was stopped half way across at the gentle command of the trainer, who announced that they had trained

them to do this. At the command, the free-sliding seal stopped without physical aids and became as a normal seal on wet cement, i.e. it had to propel itself with flippers and tail in order to move. Two sea lion thus performed and each demonstrated swimming power on wet cement floor instead of in water. When we know that a sea lion can be trained to consciously pretend to swim even though it is not in water, and that the energy field thus created becomes as a field between the sea lion and the wet cement, then when we observe an underwater shot of a seal or sea lion on TV, we can readily understand how that animal can move through the water at the same velocity for 15 to 20 feet without any motion of its filppers. Water produces great drag to a body moving through it. This was observed in the same pool where the sea lions performed along with the dolphins. There we saw a man dive from over 100 feet into 15 feet of water. His body that entered the water with velocity of over 60 mph, came to a managable halt before he reached the bottom only 15 feet away.

Knowing that the sea lions turn on their propulsion field as naturally as we "turn on" to walk or run, made the rest of the Marine Land tour more enjoyable and revealing. Watching the big tank performance of dolphin and killer whales through windows below the water level revealed that in the larger fish especially, there was very little applied tail movement or thrust, but there was considerable propelling thrust, and it was apparent by the sea lion demonstration, what this thrust was.

We later went to hang around a penguin pond until two young penguins decided to perform. They likewise dispelled the common description of their propulsion—"penguins fly through the water." We saw these clumsy on-land animals become a living torpedo in the water. They darted about as many writers have described them darting about and porpoising in their natural habitat. The most impressive though was a parallel demonstration of what we saw in the big pools of dolphins, killer whales and sea lions. Two young penguins, even in this restricted space, would suddenly decide to stop all stubby wing motion and turn corners without losing velocity,

while using their feet only as rudders to make the turn. Our physical senses and our physical ego, which has experienced our restricted mode of swimming, cannot by our experience fill the missing gaps that lie between us and the effortless physical push that is common to torpedo-shaped marine life. Since magnetic propulsion is not used by us other than internally upon tissue, researchers are prone to point to physical details that are common to us for the explanation of the unusual abilities. They suggest that wee riffles in the skin of dolphins are responsible for added momentum and drive by creating a friction-free surface on the skin.

It is well known that a dolphin, like a salmon or a shocking cat-fish, has a layer of specific type of fat just under the skin. What is not considered is that this brownish fat is as the pole of a magnet and that the surface of the body becomes friction free due to a magnetic field that acts upon its habitat (the salt or fresh water). The dolphin is torpedo-shaped; when its body is seen to have a surface charge, that torpedo-shaped field is a natural propellant. Furthermore, if this torpedo-shaped field is a two-ended vortex, with a small vortex at the positive head end and a large, long vortex at the other (negative) end, then we can see that a porpoise cannot switch drive like a serpent, and if it reverses, it must do so physically. It is said of a porpoise, from observation of muscle study only, that they can swim at least two times as fast as muscle power alone would allow.

The penguin, whose underwater wings are placed in the same position as bird wings, demonstrates a combination of porpoise electrical field travel and cat-fish shocking power. In the penguin the rhomboidal cells give magnetic energy to wings, even as they give shocking power to the electric cat-fish. In some photographs taken in the extremely cold weather of their natural habitat, the penguin wings appear to have points of light. The modern camera can see somewhat beyond the physical eye. In some cases a rhombohedral pattern can be seen at the base of the wing. (Fig. 24) This illustration was inspired by what was seen in a picture presented by David Saunders in Bantam Books, *Sea Birds*. I could not trace the origin of

Fig. 24, PENGUIN PORPOISING

the photo but feel that the rhomboidal pattern in that specific spot could hardly be someone's inspiration; a camera must have originally registered it. When one sees a penguin dart about in the water and leap to ice ledges, the rhomboidal tells us of crystaline compatability between the penguin's body field and sea water. As the pattern is rhomboidal rather than cubic, it tells us which crystal balance and field is deployed. Remember the cilia with a 360° ring of spheres and spheriods capable of simultaneous multi-directional twist. These balanced pairs, when unbalanced by desire, perform seeming miracles of variety. The penguin's whole body moves in one direction, its balance needs to be compatible to its media which does not change, but repels the penguin's field even as the serpent's anchor (bump) repels the field of elliptical cells.

In a TV presentation, *The Undersea World of Jacques Cousteau,* penguins were followed into the sea where they were photographed and timed in their natural habitats, doing their thing. This TV viewing was much more impressive than were penguins in captivity—and more revealing. They were clocked at up to 20½ mph (30 ft. per sec.). They traveled for considerable distances with wings straight out and not moving and the feet performing only as rudders. When observing them one comes to the same conclusion that many researchers have voiced about fish—they just move through the water, the actions of fins and tail do not justify the speeds attained. Jacques Cousteau's men, upon underwater observing of salmon negotiating a waterfall, stated of the jump, "They attain speeds of up to 15 mph in very short runs by some strange feat; perhaps they utilize swirling eddy currents to attain additional speed."

An explorer on his first contact with penguins, while on a low dock that had Adelle penguins about, received a peck on the shin. Of this he said, "When he pecked on my shin, I kicked him into the water. He came back a moment later as a propelled rocket." The distance that it takes for a penguin to gain velocity in water, makes the penguin a drag racer equal to the barracuda with its quick lunge from a standing start. The

bio-electric condenser discharge of a grasshopper pushing on solid ground is similar to the penguin and barracuda lunge (hop) in water—only the media and applied push is different.

The penguin cannot swim when featherless as during molt. The feathers, somewhat like scales on a salmon or other fish, are a part of the dispensing apparatus of internally instigated currents and polarities. The feathers of penguins are of a special texture and lay and are carefully preened to keep them sleek and effective at all times. Those studying Nature to find answers, cannot afford to look only for what they wish to find. The entire body and its outer field are working parts of the whole, and the surface of the body is as necessary for its harmonious existence as are the internal mechanisms and their functions, which, as in the Vast Cosmos, first work inward to create a nucleus, then work outward from that nucleus while also working internally within the body. The animal kingdom's bodies, being individualized functions within the Vast Cosmos, are a reverse or mirrored image of Cosmic principles. If we look for these causes within the body rather than outside of it, the answers are not forthcoming. Without the external they could not be as a reactor depicting Cause in many fashions. A review of man's efforts to know is to call attention to the fact that internal investigation alone, regardless of how thorough, cannot solve problems that have an external Cause. Any body that interrupts lines of force or currents of energy, creates an energy field around its body. This field forms due to the body first becoming internally charged. In relation to the body field, the body is the nuclear center, the apex of the subtle, ingoing field and the nucleus of the outgoing field.

During a tobogganning slide, the penguin's wings are extended and the feet are also active. They, like a piezoelectric igniter, can be activated by tensions to create outer electrical effects. For instance, much has been said about the penguin, and much of it concerning its fleetness in the water and its apparent clumsiness on land, while even there showing strange and uncommon traits. We quote from *Penguin Summer, an Adventure with Birds of the Falkland Islands* by Eleanor

Tettingill, a Walt Disney Production, "They wade into the water up to their flippers, bend down slowly and are away in a flash. The clumsy bird that ambled into the water was transformed into a sleek, black torpedo darting about with incredible speed. The flippers become propellers, the yellôw feet acting as rudders." Also of Rockhopper penguins, "A steady stream of Rockhoppers moved up the almost vertical rock to a colony that spread out like a fan over the amphitheater above. At one point they scaled a perpendicular slab of rock for over 30 feet. From where we sat, it looked as though they were creeping, but the telephoto lens showed that they were hopping very slowly. Now and then the climbing bird slipped and fell back, but usually caught itself in some unaccountable way—it was hard to see how it could stop once it began to slide. Two birds began to quarrel and both lost their footing and dropped to the rocks below."

The following excerpts are from Jean Rivolier's book, *The Emperor Penguin,* which is an account of a team from France who weathered an antarctic winter in close company with a rookery of Emperor penguins. First concerning tobogganing, "His method of tobagganing enables him to work up quite a speed so that you have great difficulty in catching up with him even running full tilt; and even when you have caught him, you still have your work cut out to pin him down. Mistime your tackle, and however much you weigh, the Emperor is likely to carry you on for yards." On crossing a stream resulting from a crack in the ice: "they lay down on the ice and use their tobogganing method to cross the gap;" on swimming: "their bodies which never seemed anything but big and awkward when on ice, are in water light, quick and wonderfully maneuverable."

Antarctic life and its pecularities of motion take place in the most harsh climate on Earth. Their power for motion, often without food for long periods of time, is challenged even further in that at the same time they must keep from freezing. Scientifically speaking, there is a direct relation between motive power and cold and heat. Power to move things electrically is the same power that can be used to warm things or to cool them.

The electrical flow that heats a stove coil is the same flow that when run through a dissimilar metal junction, creates cold. In another state, applied pressure to ignite a diesel engine can also be used to cool by designed control of decompression. It takes power to compress and warm (magnetism) or to decompress and cool (gravity). Electronically speaking, the same applies to a dissimilar junction. Polarity compressing is heat and decompressing is cool.

The 15th edition of *Encyclopaedia Britannica,* under the heading "Thermal Wind," describes thick and thin layers of air, warm and cold respectively, being reversed in the North and South Hemisphere. If we conclude that these effects are secondary effects of a basic vortex that starts at the equator and spins left in the Southern Hemisphere and right in the Northern, we can then mentally see why the South pole has more ice and more harsh weather than the North pole. The poles are the apex of each spiral, and all secondary spirals or balance differences between are effects of the unseen basic.

The antarctic surface and sea life is being continually studied and survival in a cold environment is a big part of antarctic research. Two articles that tell of research of animals and fish at the biological laboratory at McMurdo Station, Antarctica, are "Life on and below the Antarctic Ice" by Kendrick Frazier, found in *Science News,* Feb. 23, 1974, and "Science at the Antarctic" by Robert Gannon, in *Popular Science,* May, 1974. All animals and fish at the Antarctic manage to survive in comfort in a very trying environment. The articles are about the research of a group of Duke University zoologists working in the biological laboratory at McMurdo Station, seeking to find answers to conflicting life styles which are necessary for Anarctic life to survive. One part of the research calls for putting Emperor penguins in metabolic chambers where temperature can be varied from $-50°C.$ to $-10°C.$ Various measurements including water loss and oxygen intake are then taken to determine the amount of energy penguins use to stay alive in various temperatures. The second part of the research program called for measuring how much energy penguins use to

walk. (Remember the female and male in turn walk a hundred miles to food and back again, and the trip to open sea is after a 40 day fast for the female and a 65 day fast for the male.) Penguins walking on a treadmill while being monitored by exacting laboratory techniques, provide unsuspected computer-assisted answers. The penguin's metabolic rate remains constant from −25°C. to 25°C. The general feeling of the researchers appears to be that many more surprises will come with further research.

The Wendall seal like the Emperor penguin takes to antarctic ice and storms like a duck to water. The team of researchers find that the Wendall seal in extreme cold can dive as deep in icy water as seals dive in warmer water, and that their trip to the surface for air is from 10 to 30 minutes. The male will stay in the icy water for 3 to 4 days, while the female has to feed her young on the ice. The antarctic seal lives a much easier life than the penguin that walks and toboggans great distances to raise its young, but all in all they collectively defy laws that look to food and oxygen for power and heat. Theories that seem to explain warm climate survival fall apart when applied to antarctic life. When the basic laws of metabolism do not hold true in these animals and the ability to live with extreme cold differs even among those investigated, the necessity of a broad postulate that contains a relatively simple cause for each happening becomes even more apparent.

Another research group using a gas power winch to fish Antarctic Cod, Dissostichus Mawsoni, from a 1,600-foot depth, and then to examine their catch to determine how these fish keep from freezing, report that the 4-foot length, 160-pound cod is large enough that its blood yields a couple of pints of substance, glycoprotein, which their research shows to have anti-freeze properties. Further research is reported to be carried out to see how this glycoprotein substance prevents the formation of ice crystals, as the Antarctic Cod lives its entire life under and amidst ice. There needs to be some method, the researchers assume, that keeps them from freezing along with the ice, and that the properties of sugar, amino

acids, etc., in this glycoprotein could be the answer. The elaborate means by which the glycoprotein would avoid ice crystals forming in the fish appears quite impressive, until another mystery is added to the former; an antarctic fish called Notothemiz Kempi lacks this anti-freeze, but likewise avoids freezing into ice crystals.

In my opinion the total answer has not been uncovered. When these researchers go to their man-made shelter with its artificial heat, they turn up the thermostat to a desired level and relax. Thermostats were not known before the discovery of electricity. They are though a copy of biological thermostats that operated in bodies of men and animals long before mankind discovered the principle. Both are electrical and each controls a local level of heat and cold.

The Emperor penguin in life style is part time as a fish and part time as a land animal. They have a thermostat that works in fish environment and in bird environment. Their vortex, which enables them to swim like a streak and slide on their bellies, also, because of its special quality, enables the penguin to use its field for added insulation to harsh winds. Figure 25 shows our interpretation of an active field that surrounds the Emperor penguin and its chick, challenging the most harsh weather on Earth. If the chick should wander off even a few feet into $-70°$F. temperature, made even colder by wind, it would freeze in seconds as its own body is not fully developed and its feathers are not developed to be somewhat like scales of fish as are the feathers of the adults. In many pictures the chick is seen to huddle close to the parent, either male or female and to sometimes sit on feet which are so cold that snow will not melt on them, while appearing to be as snug as we in a warm house. In photos they do not appear to touch the parent. Logic tells us that body heat cannot extend far in $-70°$F. weather. We would freeze just outside the door of a warm house as quickly as though we were 10 feet away. So also would it be with the penguin. Close to the parent is an active field that excludes cold, beyond the field is instant death. We, too, have a field but not as efficient as that of

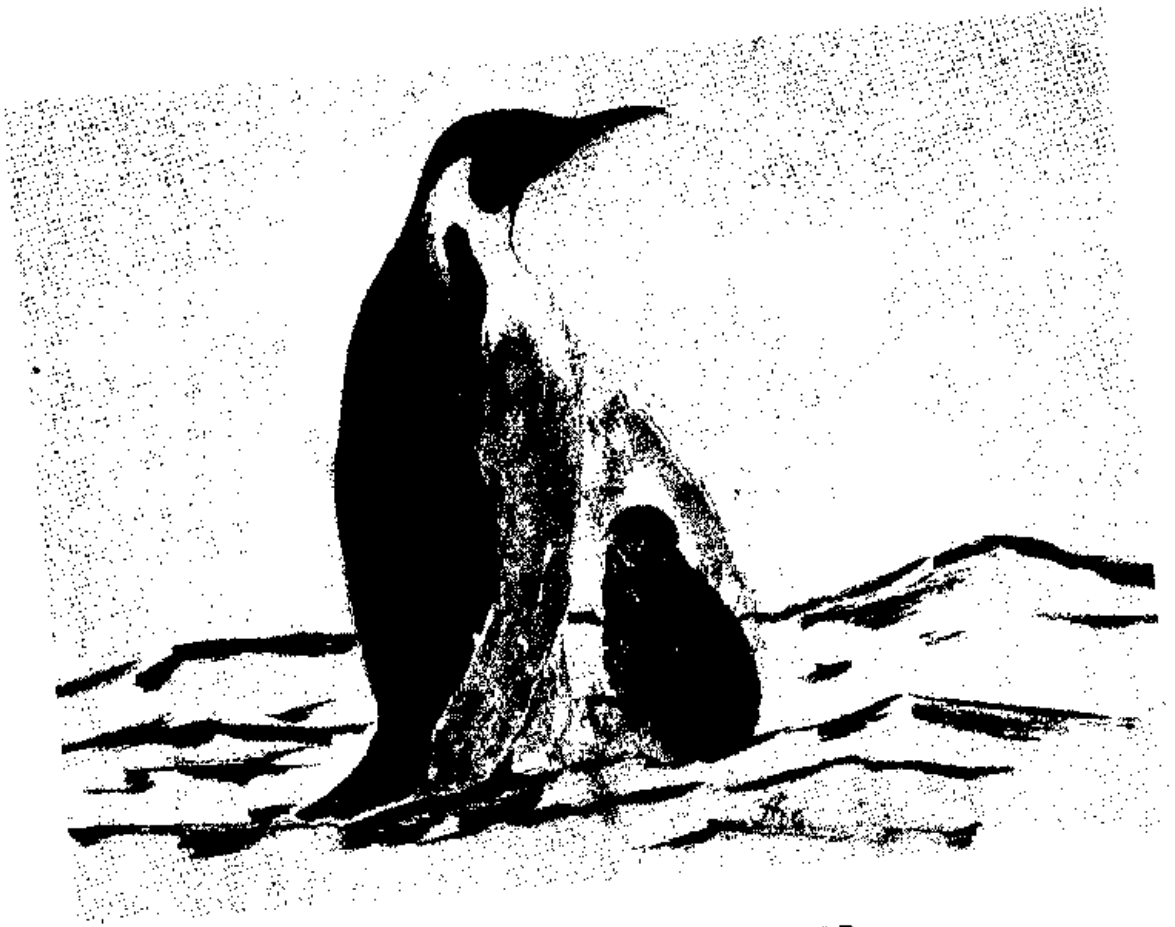


Fig. 25, PENGUIN CHICK IN FIELD

animals that cannot design clothing. Thermal underwear that can leak air currents is as warm, or warmer than solid underwear. Our body field in thermal weave is more active than in solid. When we put a soft fur head covering next to our face, we feel a different kind of warmth than if we try to exclude cold with solids. When a blizzard develops, the penguins huddle together in standing-room-only fashion. Their unified field keeps all warm and the hardy ones in the inner circle sometimes change position to give rest to those that create the first barrier to driving, death-dealing chill.

Penguins feed the young with regurgitated seafood. The female goes to the open ocean to feed while her mate hatches the egg by holding it against a warm spot on its belly between the feet. The female's trip can be 100 miles each direction in the middle of antarctic winter and darkness, over strange ice that formed during the mating and egg-laying period. The penguin's legs though are not its only means of travel. If the ice and snow are quite smooth, they, like the sea lion in the trained experiment, toboggan with speeds up to 5 mph and in this manner they also leap across fissures in the ice which would crush them if they should fall. Often they use a snow bridge to cross a fissure, but they never pick out a weak one to cross over. They will, if necessary, go quite a distance to reach a safe crossing, which is found and approved without visual inspection. Even as they find the rookery on their return, in situations where man would need a well marked trial, they find a safe snow bridge. There are unique ways to apply the Other Density floating decimal in Life forms that perform naturally rather than by self-choice and self-intellect. The Other Density, unbeknown to our senses, is right here all the time and it never sleeps.

Penguins, like birds with wings for flight, have cold feet. Snow will not melt on their feet. This arrangement in birds calls for a dual system of warm and cold blood. That too is variable. The penguin, normally a cool-blooded creature, develops a warm spot on its belly to hatch an egg in more or less −60°F. cold. It has an electrical field that matches the weather and repels cold. The internal field has a counterpart in the outer.

Internal and external drive and forces in biology relate directly to forces coming to Earth. Planet Earth swims and spins in the Earth vortex within the Solar System vortex and its currents; the Solar System Vortex swims and spins in the Star Cluster and the Galaxy vortices; and all of these swim and spin in the lines of force of the Cosmic Duality of Electromagnetic Light, which lines of force come to Earth from a 90° angle (to the North Star) and which 90° angle lies parallel to Earth's equator. Evidence of positive and negative driving force is present daily in what is termed "diurnal change." Diurnal change affects all animal life to varying degrees of intensity and style. Jan. 15, 1977, *Science News* reports on an article appearing in Dec. 16, 1976 *Nature*. The heading is "Nonadrenaline Rhythms" by M.S. Ziegler and his colleagues at the National Institute of Health. The article states that the quantity of the nerve transmitter, nonadrenaline fluctuates in mankind in a 24-hour period, that it is the highest in quantity in the brain and in the cerebrospinal fluid in the afternoon when primates are most active and that this 24-hour biological rhythm persisted in spite of light lack or pressure; ...this confirms our 90° angle lines of force.

Following night, positive lines of force come into play over the horizon, and a new day starts. People express outward during this positive cycle of influence. Some go away from home to work, others in the field, etc. At noon the negative lines of force come into play and thus the afternoon is both positive and negative influence. This part of the day is generally the well rounded time of day which diminishes when the positive lines of force become less active. By evening the negative lines are in full force and directly on us, and most people go home (inward so to speak). During the evening the outgoing is more physical, more gender and pleasure-oriented, and business, if pursued, is more in the line of entertainment and talk rather than physical production. When both drives are on one side of Earth, the side opposite is enjoying a rest period. Only the necessary work and watchfulness are active,

and bodies rejuvenate materially by being immersed in deep Earth energies which are secondary energies, by our Earth and Sun unit being a secondary Cosmic home within our Cosmic Galaxy, etc., Home.

At this time in Earth history, and in step with our current knowledge explosion, we, who have managed to explore limited surrounding space, are witnessing an increased intensity of strange craft in our skies and near or on our surface. The extraterrestrial activity is in step with a quickening Cosmic Cycle that affects a large area of Space and many Celestial Systems. When we investigate and consider the power source and its use by true Space Craft that do not make sonic booms, in spite of their ability to accelerate to great velocity in a few seconds, we are forced to admit that these craft are not like ours. If, however, we evaluate them in their energy space in the same light that we evaluated friction-free travel of dolphin in their media, we have a parallel answer, not only for the lack of sonic booms, but also for their mode of propulsion. The media of atmosphere that creates crystaline snowflakes, Brownian movement and primary and secondary swirling currents in the Earth's atmosphere and waters is an extension of Electromagnetic Light and its built-in characteristics. As this Light extends to produce elements through atomic structure it also extends to energize the oceans and waters to be a media parallel to atmosphere, but in a denser state. In this media the developed and/or turned-on aura or field of the dolphin finds solid energy footing in an energy media common to its own charge. As the water is already displaced by the fish, there need not be much disturbance to the surrounding water at moderate speeds. The fish just slips through the water, field to field. So also is it with an energized craft in energy Space. The field ahead, alongside and behind the Space Craft, is within energy Space, and the craft just moves through it. A balanced field cannot move in a balanced field; however, a more unbalanced field can move in less unbalanced fields. As Infinity is stillness in perfect balance, the less unbalanced is always closer to Infinity.

Chapter 19

Biological Shocking Power

All elements, waters, soils, rocks and life forms that are below the surface of Earth are in negative polarity, and we find that there the same Universal laws apply as above the surface. There are fish that use radio principals to detect objects in water even as we, above the surface, use electronic detectors. Some fish, which are neither fast swimmers nor users of radio principals, use shocking organs for protection or to stun their prey. The fish that can produce electric shock at will are examples to us of tomorrow's energy without fuel. We cannot resolve these happenings by investigating the bodies and organs only. We need to see them as though we were observing them from high frequency space. There we can re-evaluate the reports from our physical senses in terms of Cosmic Science and free ourselves from trying to satisfy the senses with proof that they cannot feel. Mentally observing from a remote area to resolve a problem is copying Infinity. From Untouchable Stillness, Infinite Spirit and Wisdom see outward to all lesser frequencies of either density, and nothing is a mystery as each happening is in some way a miniature copy of the basic.

Since every physical happening takes place within Infinity of Great Density, then each and every occurrence of a build-up of electric shock is a parallel to the steps that take place from

Infinity outward to produce a Universe and all the mini-universes or life forms within it. The shocking organ of the eel is a tool even as the ignition system of an auto is a tool. The electrical tool, as seen by us far removed from the action, serves the mental purpose and law of survival of the eel. The shocking organ is electrically alive as long as the pulsating blood stream maintains a standing energy potential in the body of the eel. When the need arises for applying shock, the mental activity is similar to us moving our arms for self-defense or to acquire food. The shocking force is electrical energy channeled through a voltage doubling series to build up high voltage. The energy is not produced by the organ. It is tapped in the same manner that an electrical, physical body of man taps it; but in another style and for another purpose.

The strong non-electrical forces of the atom are local evidence of strong non-electrical forces throughout Living Space, which are a sound framework for all electromagnetic force and activity. With this as a basic thought, electrical charge and discharge is conceivably possible anywhere in the Universe. The great flashes of light sometimes observed in space are electrical discharge not unlike an atomic explosion that is a discharge (short circuit) of high potential electrical space at the atom level.

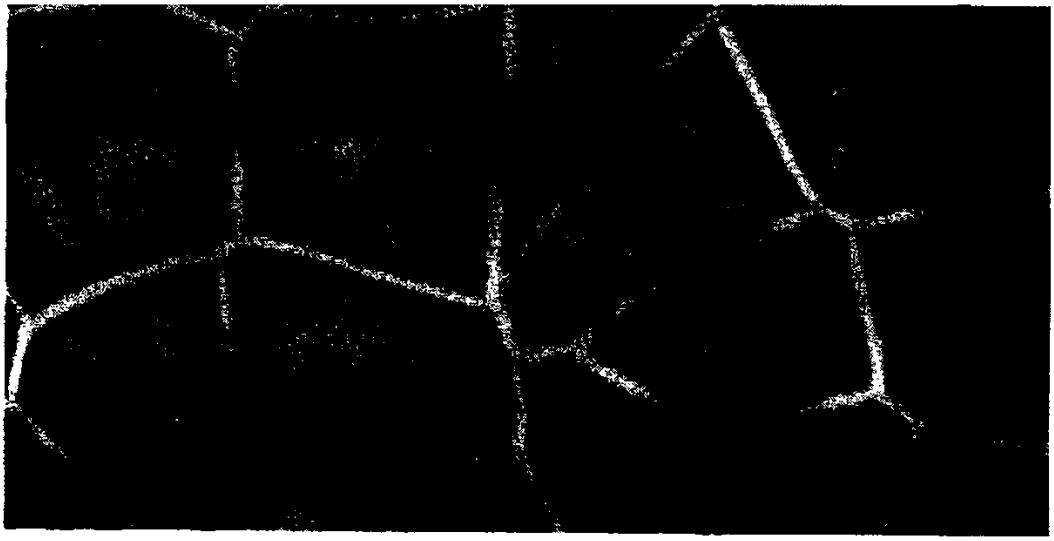
It is now recognized that lightening in our atmosphere is a two-way reach of forces. The unbalanced, positive force in the atmosphere, acting to find balance, comes toward Earth as a bolt, and the flash we see is that of the stored energy of Earth (capacitance) going upward to relieve the unbalance in the atmosphere. When we shuffle across a negative balance rug on a dry day, we lose some of our body surface charge to the rug, then when we approach a metal object, a stream of electrical energy leaves the metal and jumps a gap to our body and the sudden exchange is felt as a shock. The path of a strong current (shock) through our body can rob tissues and organs of their natural energy charge and cause temporary paralysis. A very high voltage pulsing charge inside a TV chassis, if approached closely with any part of our body can

cause temporary paralysis even across a gap and without the body being grounded. The high voltage can rob us of standing energy potential even without a through-flow that happens at lower voltage shock. All shock is an interchange of forces caused by unbalanced charge in electromagnetic crystaline Space, or in material manifestations, natural or man-made. A bolt of lightening can manifest this differential only because Electromagnetic Light in contrast gives it this potential. So also is it true of any electrical charge or interchange.

The solid mantle of Earth is a conglomerate of elements, molecules and minerals which are also found in the seas in fluid form. We can point to certain discoveries and happenings which tell us that the solid mantle of Earth is a living crystal, and by these we can mentally visualize the sea to be a reactive fluid crystal in which many energy and Life reactions take place. In *Scientific American,* Nov. 1976, an article "Convection Currents in the Earth's Mantle" describes laboratory experiments that appear to reveal the existence of convection cells and convection currents in the Earth mantle that vary in size from huge to very small. The many illustrations in the article show irregular shapes common to those found in biology and in skeletal remains of single cell organisms. They are also similar to the shapes of irridescence seen on the surface of soap bubbles as depicted in *Scientific American,* July 1976. Examples of these shapes are shown in Figure 26, a, b and c.

In contrast to Earth's convection currents are Sun currents. In June 24, 1978, *Science News,* an article "New Twists in Solar Rotation Rates" tells of convection currents detected on the surface of the Sun, and states that these are caused by different layers of the Sun rotating at different rates and in phase with the surface rotation. Each such discovery tells us that the massive Sun resembles the nucleus of the atom which has electrical and strong non-electrical forces.

Everywhere there is evidence that Earth and Sun are crystaline reactors. *Popular Science,* May 1974, reports on bases at the South Pole which tell of strangely amplified radio signals between there and Canada. At Sipple Station, Antarctica,



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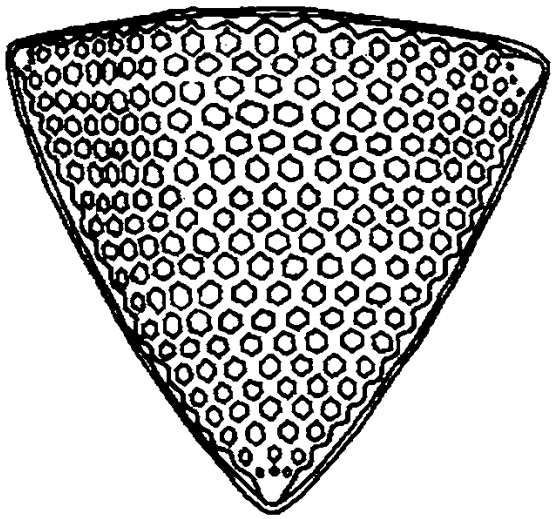

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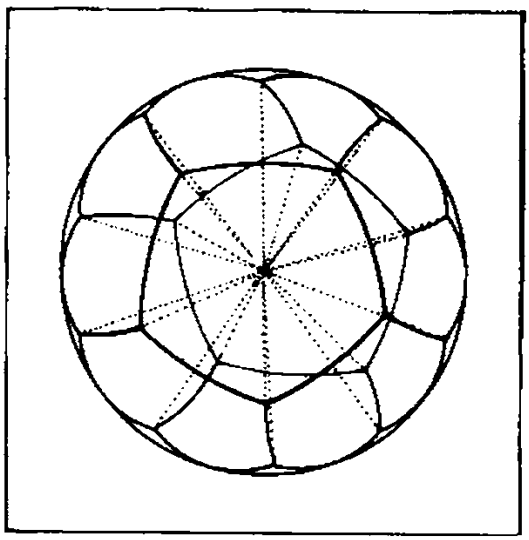

Fig. 26, CONVECTION CURRENTS OF EARTH, DIATOM AND SOAP BUBBLE

which is manned by Stanford University, is a 100 kw, very low frequency radio station. Their signal injected into the magnetic field of Earth is mysteriously amplified a thousandfold, theoretically by some mysterious process in the magnetosphere. My experience with TV signals in the high desert country of California, a fringe TV area where rock structure is often visible on the surface, showed me that even in remote areas a strong TV signal can be picked up by an antenna located above massive mineralized granite rock formation. The TV stations receivable varied, depending on the type of crystaline structure that was present in the surface. In areas where massive granite rock formations are missing, the TV signal is scattered to the extent that it is poor to non-existent, but where massive crystaline rock is present the signal is excellent even far beyond line of sight. A TV signal is attracted to and compresses toward the crystaline mass and this is amplification. Armed with this local information which is readily provable, we can evaluate the South Pole's radio and its mysterious amplification. Robertval, Canada, where the receiving station is located, sits in the midst of the largest granite rock shelf in North America. This shelf, surrounded by an abundance of mineral deposits, is no doubt an area of great activity of convection currents and their charges. The lower frequency TV signals in which the forth and back oscillation is longer, have greater reaction time and bend more easily than shorter frequency signals. The very low frequency of the South Pole radio bends with ease toward the contrast that attracts it.

When the Sun sweeps Northward, especially during May, June and July, certain Sun activity creates havoc with TV channels 2 and 4 in the high desert where rock formations are on the surface. One often receives good to poor signals from thousands of miles away on vacant channel 3, and out of phase interference on channels 2 and 4 from the channel 3 source. Sun and Earth forces are contrasting and reactive. With this in mind we can better evaluate marine life and their strange abilities. The sea is a living crystal only because it exists within primary and secondary Electromagnetic Light.

Planet Earth somewhat resembles the electron cloud of the atom, in that it relates to the Sun nucleus while also relating to Electromagnetic Space and Light. Where the Sun represents outgoing, warm forces of the Solar System, planets represent cool ingoing forces. Below the surface of Earth, electric eels that produce shock, utilize the following elements and their contrasts: hydrogen, oxygen, carbon, chlorine, potassium, sodium and calcium.

Where our generated electricity has a negative, alkaline metals have a positive. These can be side by side as in potassium and calcium but with one leaning toward the positive and the other toward the negative. If this difference be small then it takes many cells to produce high voltage as is the case with electrical fish.

The African electric catfish is shaped more like the sluggish electric eel than the fast swimming porpoise that taper off toward the tail. Its skin is soft and immediately beneath the surface lies the electric organ that is formed of rhomboidal cells of a fine gelatinous substance. This is a part of the skin and thus not unlike the serpent skin that energizes bumps with closely spaced eliptical cells visible on the surface. The fact that the cells are rhomboidal relates its basic balance to unsymmetry and to the negative side of Nature, which in physical form is unbalanced negative creations. The shock produced is up to 450 volts in intensity with a generous flow of current when activated.

The electric ray in large species produces higher current flow and lower voltage. Its electric organ of two poles is embedded in each side of the head and wings. The individual cells are hooked up both in parallel and in series. The parallel is the path for high current, while the series by accumulative pulse in a chain reaction builds up high voltage. The electric eel is the recognized aristocrat of electric fish. Its shocking organ being ⅔rds of its body length, supplies it with progressive shock that starts at one end of the organ and in series, pulses a peak voltage along its entire length. This organ with 3 parallel parts, even when removed from the eel, will produce about 50 shocks

when triggered artifically. Shelby Shakelford in *Electric Eel Calling* gave these figures on voltage potential: an 8-inch eel is capable of 120 volts of jolt, a 3-foot eel about 300 volts, and a 4-foot eel about 400 volts. There are known to be 8-foot eels and consequently 800 volts of shock. According to Shakelford, a yard-long organ was active for 1/1000th of a second, i.e., the organ had a running pulse at the speed of 1,000 yards per second from head to tail. This though is only ½ the time that a pulse or peak voltage is maintained at any one place in the organ. The pulse runs down the organ as a wave and the front end is falling from peak while the tail end is still rising. The speed of the pulse is about 10 times faster than an average nerve pulse. If the spinal cord is cut, the head end of the organ cannot be triggered to pulse; further down though the pulse can be triggered artificially. The triggered pulse acts the same as the natural pulse, which means that the wave, once started, is self-sustaining as well as is the series triggering.

If an eel died due to an accident, the organ would not activate. If, however, a man of science found the eel immediately following the accident, his conscious desire along with the necessary equipment to trigger a pulse, could make the organ activate. In either case, dead or alive, the eel pulses to the command of Mind and its aids. Atoms can be made to give off great heat without food supply, so also can the electric eel be made to produce natural shock from the same energy source; and once started, the reaction continues until the end of the organ is reached. How long then would the organ pulse if it were expertly hooked end to end into a loop? Would it not perform till the natural state of the organ diminished and was not capable of continued chain reaction?

When we inspect an article by Harry Grundfest in the October 1960, *Scientific American* entitled "Electrical Fishes," we arrive at certain conclusions. The impulse that ends in an electrical pulse, comes via the brain. All the electroplaque cells are hooked to the spinal column and to the brain. The nerve pulse activates the nervated side of the electrical cells, and when this is done, due to the dictates of desire, a special

pre-potential pulse carries across the membrane to the electrical side of the cell, not unlike the small pulse of our heart beat that precedes the larger pulse. When this small pulse enters a standing potential of the uninnervated side, a peak pulse of greater electrical potential causes the standing potential of 80 volts to become 150 volts. All shock-producing organs are similar in that they, like a cell, have a membrane across which contrasting charges play as they do to a degree even in present-day man made capacitors. The electroplaque cell is generally a 4-sided rhombohedron of varying shape. One side of the membrane is innervated, and the other side is not. The electric eel has thousands of these electroplaques in series and parallel hookup, but other fish may have less. One very important fact is that while the organ is shocking, there is a standing voltage potential on the uninnervated side, and when the prepotential pulse and the high electric pulse of the previous cell surges the standing potential, a peak pulse accumulates and this in turn helps to trigger the peak pulse of the cell next in line. But always, like a heartbeat pulse, a lesser pulse precedes the large pulse. When we compare this to other similar phenomena, we will note not only this similarity, but also the fact that these pulses are the end result following high frequency activity that lies toward consciousness and desire. The fact that our heart beat can be influenced to beat by an electrical pacer tells us that heart action in the unseen is electrical and electrically triggered.

Let us consider these facts and relate them, for instance, to the much studied hop of a grasshopper, which in electronic terms uses capacitance discharge to activate "hop" tissue, also to the high speed cavity resonators of buzzing insects that are power producing and power pulsation in combination, and underwater, to the South American Knife fish that produces a continuous signal at 500 oscillations per second. When we relate these facts, we will conclude that if a high frequency driving source is available, then each and every resonator can be a harmonic within the high frequency drive. Also that external and internal local body fields and membranes that are

energy related, can tune in and regulate high velocity, pre-atomic forces to be compatable to many velocities of biological electricity and biological motion.

Our guide to know free energy for everyday use, is to combine several electrical happenings and find similarities that produce power. As all the shock-producing energies of fish are pulse-oriented, then we need to note pulse similarites in other discoveries and relate all of them to a common power source which originates in pulse and reacts to pulsation as well; this source being dual performing Electromagnetic Light. The first to consider is EMP (electromagnetic pulse) encountered in nuclear physics in connection with atom blasts (Chapter 9). Atom bomb pulse is a living pulse that happens between the seen and unseen states of Electromagnetic Light. This pulse activates the standing potential of the power line with its capacitance and inductance, to a higher potential. Applied Living Pulse in the form of a surge, makes that man-made power supply an accumulator, not from some whisp, but from charged Living Light, which is constantly passing through that power supply as through all substances. The same force that is in the atom is the force that is pulsed into the power supply. As this happens to a charged commercial power supply, as well as to the atom and to electrical organs, then the electricity we use commercially and acquire by pumping, is closely related to the atom's energy and to biological energy. There is though, a difference. The electricity we pump is positive, warm electricity, while Nature's electricity is cool as well as warm. Modern science of solid state electronics demonstrates cooler operation than was used in the past, and solid state devices do use semi-conductors, even as is true of many biological electrical organs. This warm and cool factor has also been discovered in other man-made devices.

In the past, even as in the present, there have been many man-made devices (some publicized and some not) that have produced a continual level of power without fuel, and each has utilized pulse, as does biology for the initial and the built-up charge. The John Worrel Keely device in the 1870's was a large motor, described as a vibratory generator and named "hydro-

pneumatic-pulsing-vacue-engine." His personal notes concerning this device and its operation were as impressive as his demonstrations; however, because of the lack of a broad theory to which his device could relate for its cause of drive, and its almost human-like temperament and moods, it was disqualified as a scientific device. Keely developed several vibratory devices in motor form with strong forces in the center. Some were influenced to start by a high pitched, musical note. In Cosmic Science a high frequency sound is seen as a force that triggers a chain reaction to a high density core which can create standing potential.

A series of well publicized devices were presented by Henry T. Moray of Salt Lake City, more than 2 decades before and up to World War II. Unlike Keeley's device, which was a motor, Moray's was electronic. It utilized an early version of transistors, developed by Moray and two men of German descent who worked with him. His device, like the Hendershot, started by an applied high frequency pulse which triggered a natural pulse that charged the condensers. When they were filled to a certain level of charge, a nearly 60 cycle pulse became the driving and accumulating force that always carried ahead of its peak, or spike pulse, a prepotential spike not unlike the small spike that shows up in a heartbeat ahead of the large pulse. H. T. Moray's device produced 5,000 watts of power even in remote areas far removed from any power source that could possibly transfer to it by inductance, and it operated for days without interruption while being observed by scientists of that day.

If we once again review the Hendershot device described in Chapter 9, which was this writer's experience into "free" energy, it too can be seen to utilize high frequency pulse to build up standing potential, pre-potential and pulsing surge which comes back with more force than was injected. We can also relate this to the electromagnetic wave pulse that travels the length of the electric eel organ. The Hendershot device pulse had only two banks and the buildup was upon a forth and back series, rather than a chain of series. The pre-potential pulse in the Hendershot device was that of two bell ringing

coils facing a permanent magnet and wired from ahead of the load to a point following the load. The magnet acted as a spring cushion by facing the ends of the bell coils. Regarding starting, a high frequency pulse that sounded in earphones like the hum of a sea shell, charged the condensers to be energized as is the power line for EMP (pulse).

There are several other devices that could be discussed concerning similarities between biological output of electricity and of past and present man-made copies of Nature. To do so would add little to authenticity as each device was individualized and was of distinctly different design. Hendershot, who was not an electronics technician, told me in sincere confidence, "I do not know why I built the small 1½ volt device, or the larger ones as I did. I built them by inspiration not by design. I put them together piece by piece and was amazed that they worked."

Each of these devices and others not mentioned, had basic similarities that distinguished them from electric generators in common use and from the electricity produced by them. For instance, current caused by these devices will pass through a transformer with thin wire windings without heating, while conventional current of the same flow and voltage will create heat. Light bulbs used for test and demonstration produced a different glow than bulbs conventionally energized. The filament appeared to be a ball of light, rather than the shape of the filament, and even though as bright, they remained pleasingly warm, rather than hot as those lit by conventional house current. To this writer and experimenter, this means that in all cases, electricity without the use of fuel used both cool and warm sides of gravity and magnetism respectively, in a natural manner as is displayed in biology. The cold blooded electric ray is not reported to have temperature problems in spite of high current flow.

To add zest to our mental adventure into free energy, let us consider an unusual experience of mine and note a similarity seen in it to what is known of the electric eel organ. One night in 1957, two friends and I were near Sharon, Penn. overlooking a marsh where strange lights had often been observed. As we watched, an aeroplane flying above a local overcast was heard

but could not be seen. I was not interested in swamp phenomena, thus was looking skyward, when below this overcast a dull red light appeared as though it came out of the overcast about 2 miles away. I had my field glasses along and trained them on the red spot. The red glow, when seen through field glasses on this dark night, divided and became 3 nodes of light rather than one. Between the 3 nodes a play of resonating energy, not as dense as the nodes, made the glow fascinating to behold. The best way I can think of to describe this glow is to say that it was Living Light dancing about between the nodes, and it did seem to the senses to be revolving at a slow rate, somewhat like the spokes of a turning wagon wheel revolved either forward or backward when seen through the eyes of a motion picture camera, which sees the spokes in squirts of vision with each squirt seeing a different position of the spokes. Red is the lowest frequency light that we see with eyesight. Thousands of people have described a UFO as going through the spectrum of light as it accelerates to great velocity. Generally the light disappears following the highest frequency and beyond the range of eyesight. Those who use the meager 1% band of visible light to evaluate total light say that the light went out. Those who remember that vision is limited, know that the ship went deeper into density and beyond our vision. It is as real there as it was when we saw it.

The obvious similarity of what is seen in 3 light-producing nodes on the bottom of a true space craft and the electric eel is that if we hooked the electric eel end to end, we would have a loop not unlike the 3 nodes. The electric eel chain of pulses has to be started by desire—and desire is a characteristic of Life. The organ can produce only a short time after the eel is dead; it can produce continually if the eel is alive. The starting mechanism is that of Life and Life desire. Without Life, even our body becomes dead, and without desire our body, though alive, is as a vegetable. It stands to reason then that tomorrow's free energy devices will be semi-living devices, in that an operator will supply them attunement to Life. A dead operator cannot attune and a dead machine cannot operate. Living desire is at the root of all action.